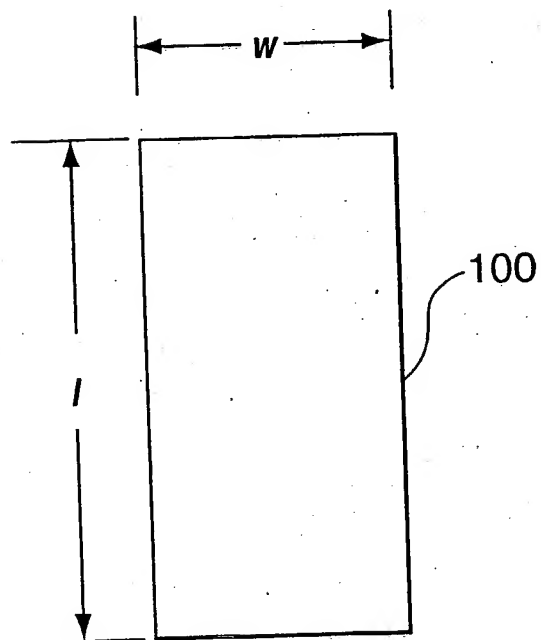


**FIG. 1 (a)**



**FIG. 1 (b)**

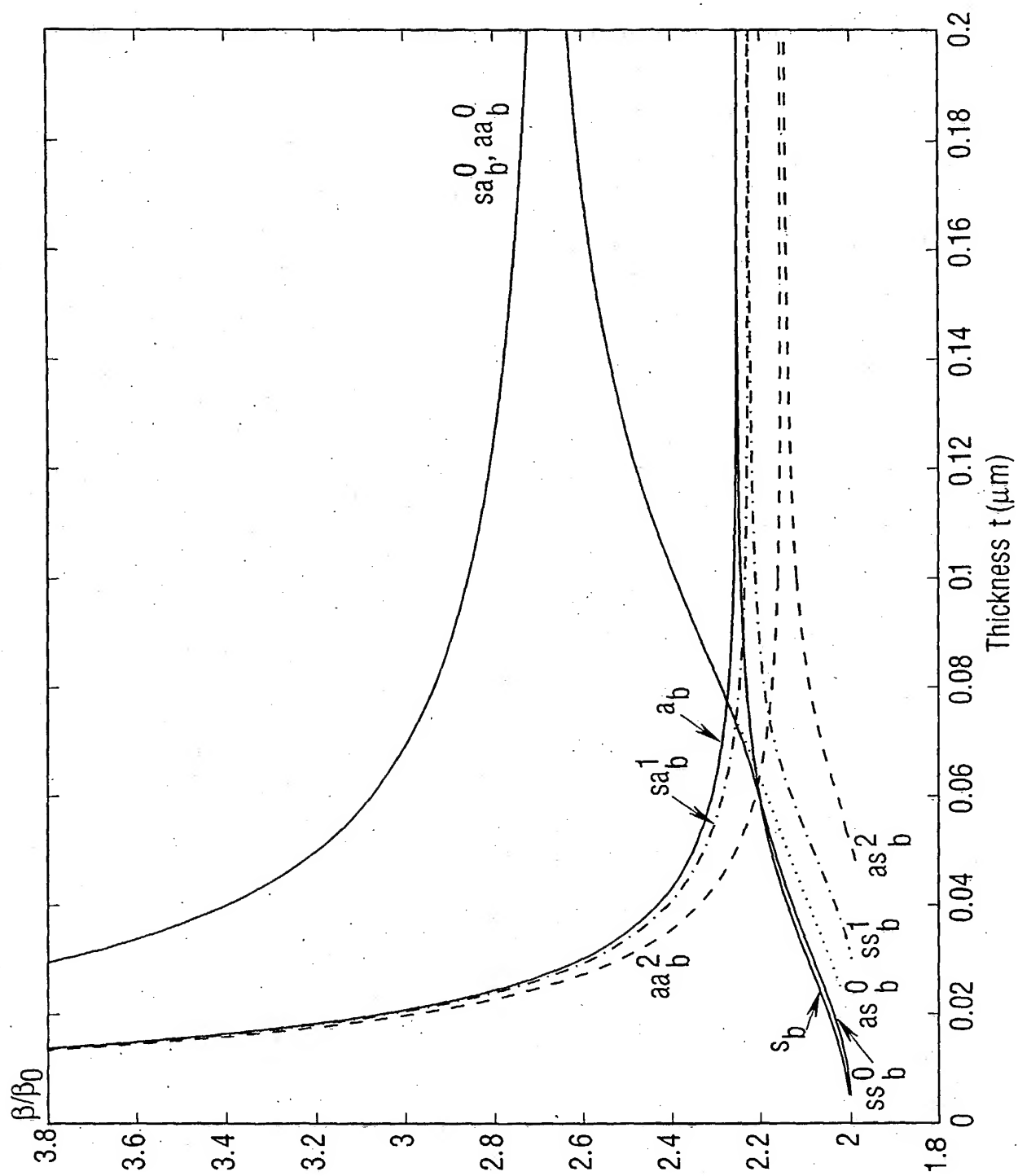


FIG. 2 (a)

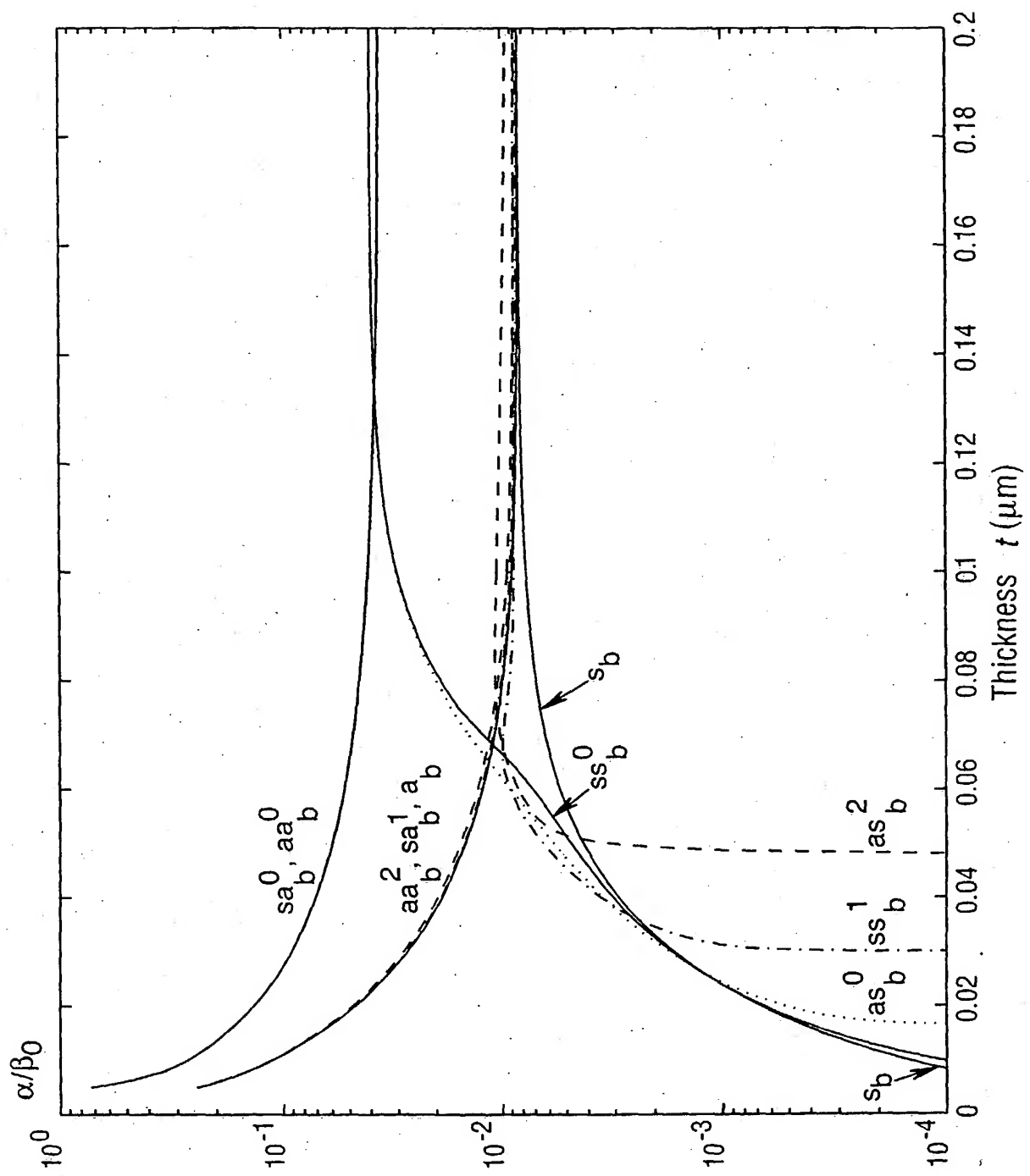
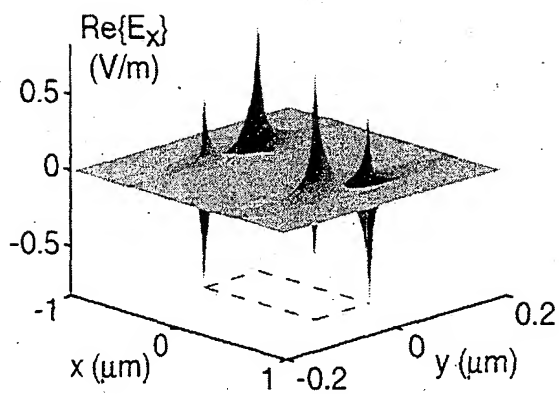
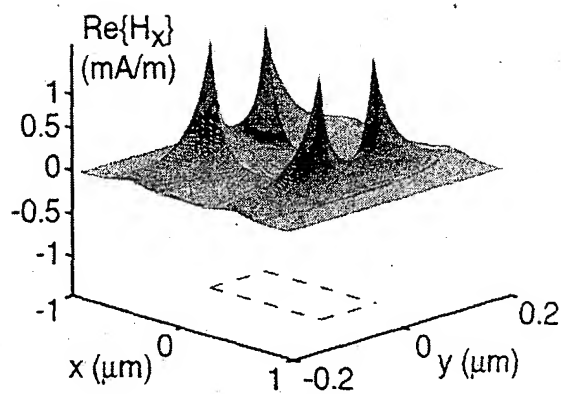


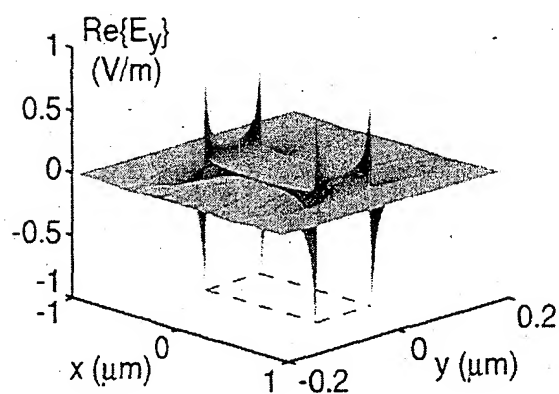
FIG. 2(b)



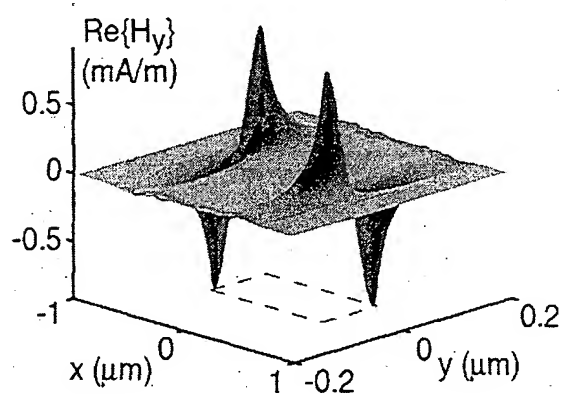
**FIG. 3(a)**



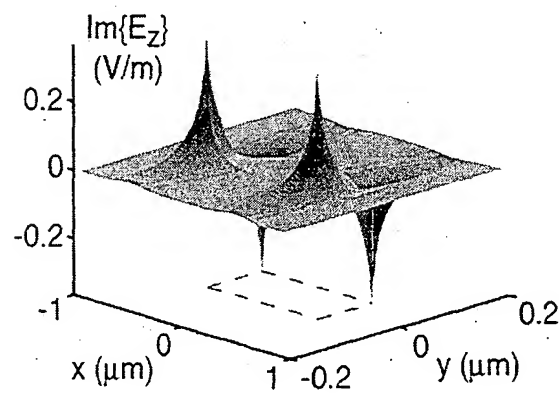
**FIG. 3(b)**



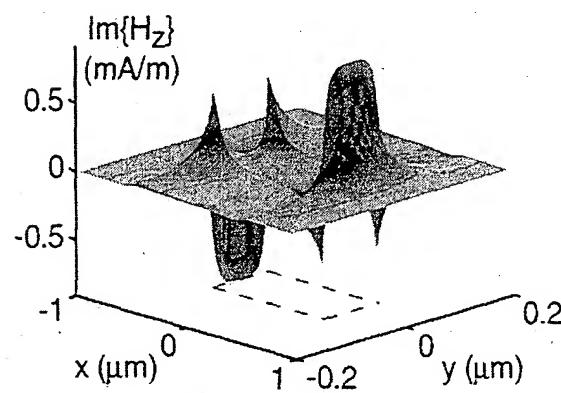
**FIG. 3(c)**



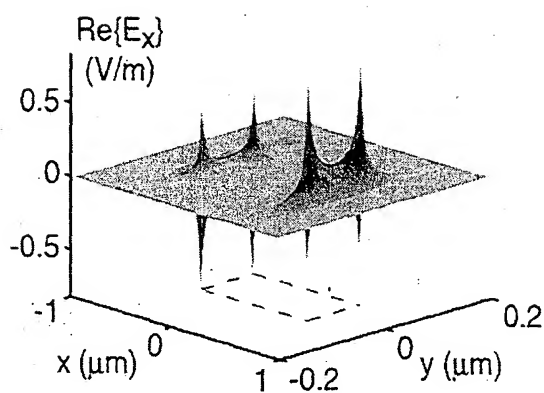
**FIG. 3(d)**



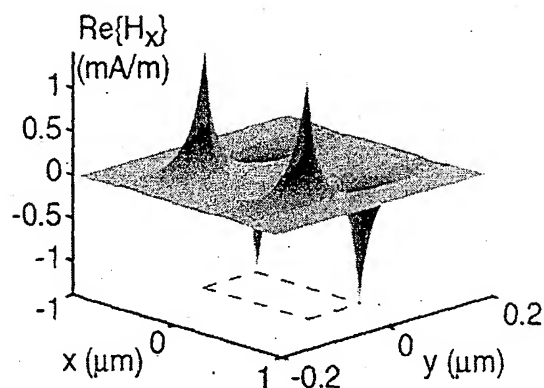
**FIG. 3(e)**



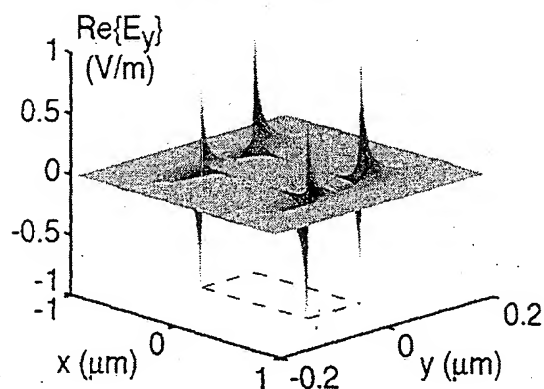
**FIG. 3(f)**



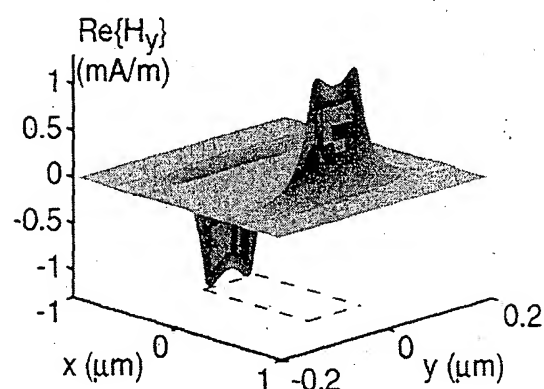
**FIG. 4(a)**



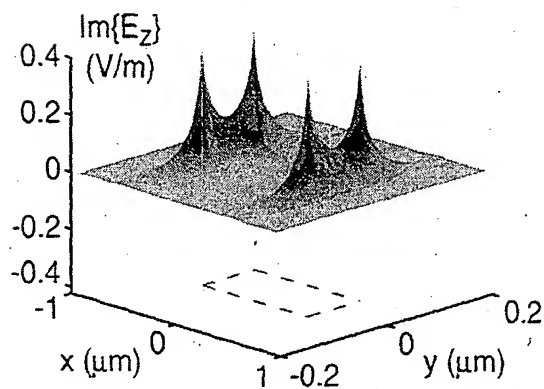
**FIG. 4(b)**



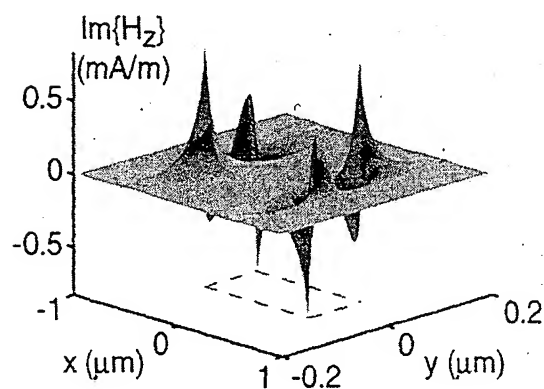
**FIG. 4(c)**



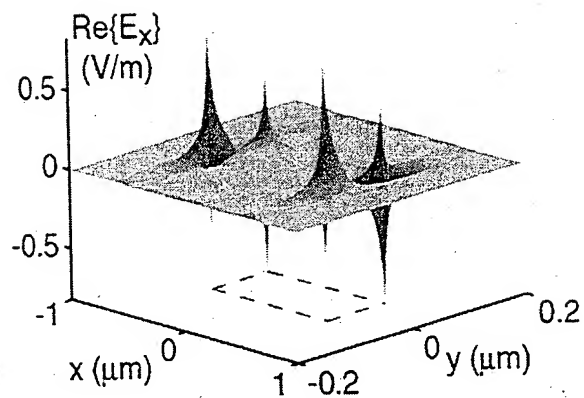
**FIG. 4(d)**



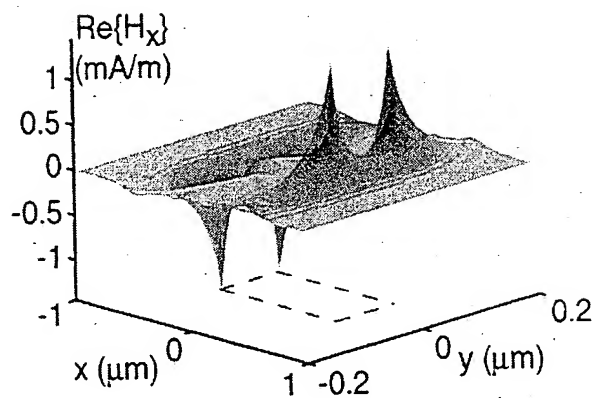
**FIG. 4(e)**



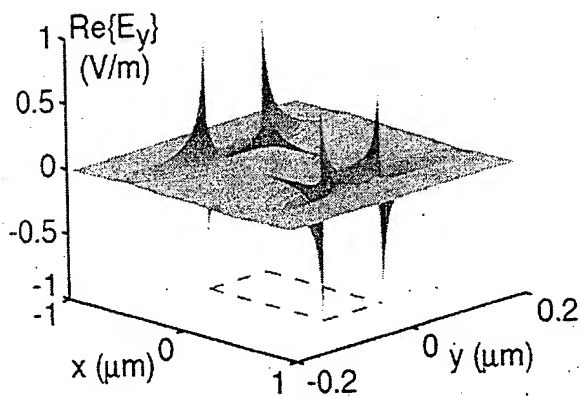
**FIG. 4(f)**



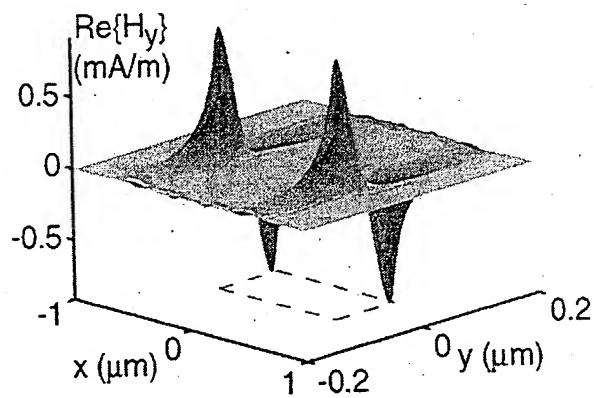
**FIG. 5(a)**



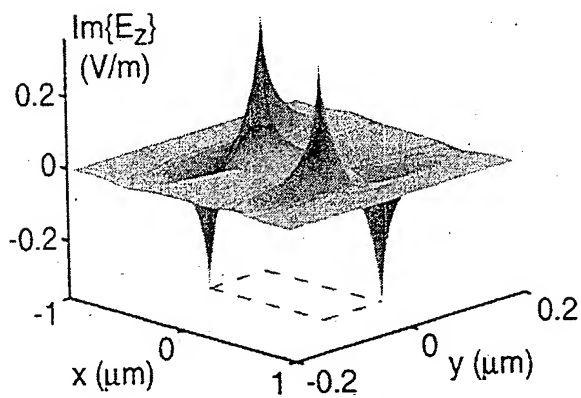
**FIG. 5(b)**



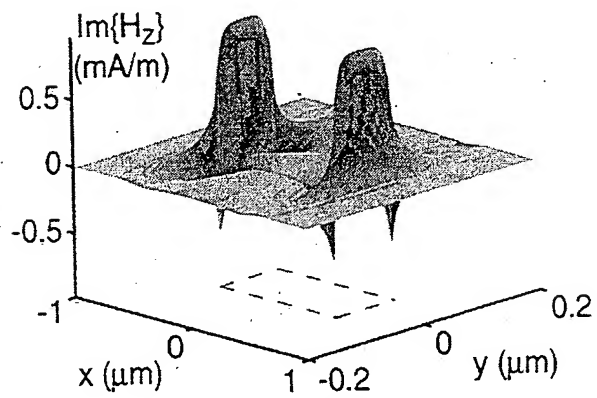
**FIG. 5(c)**



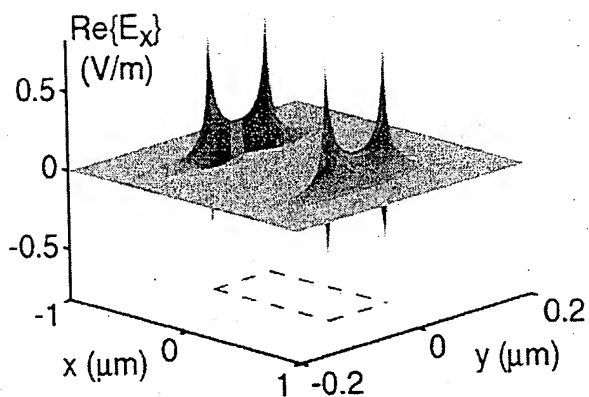
**FIG. 5(d)**



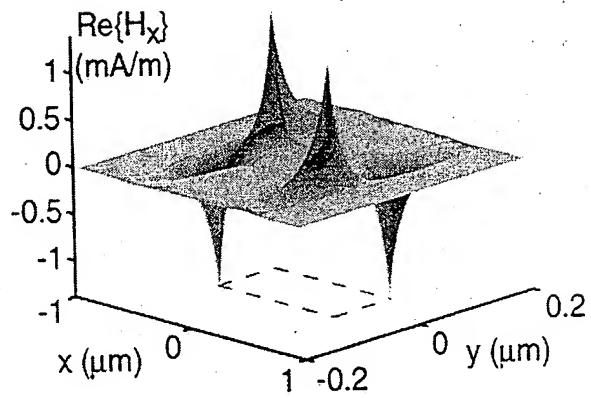
**FIG. 5(e)**



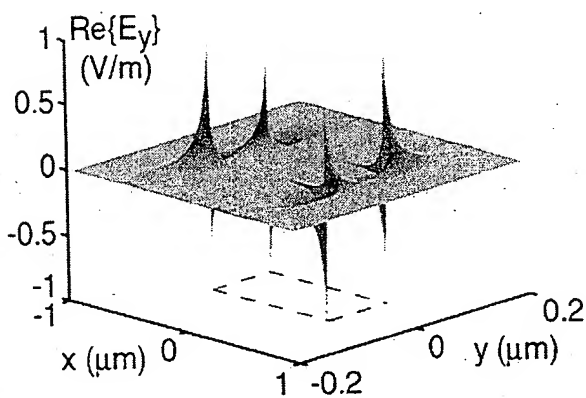
**FIG. 5(f)**



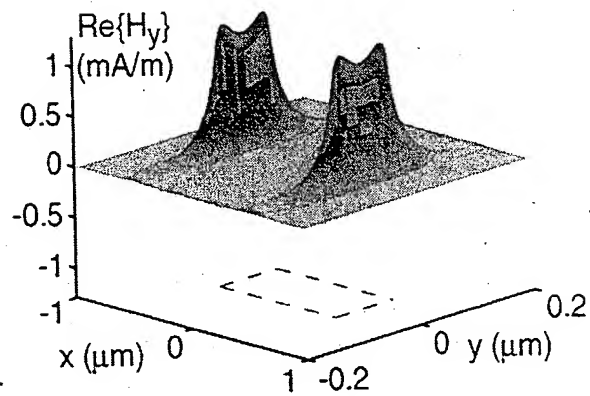
**FIG. 6(a)**



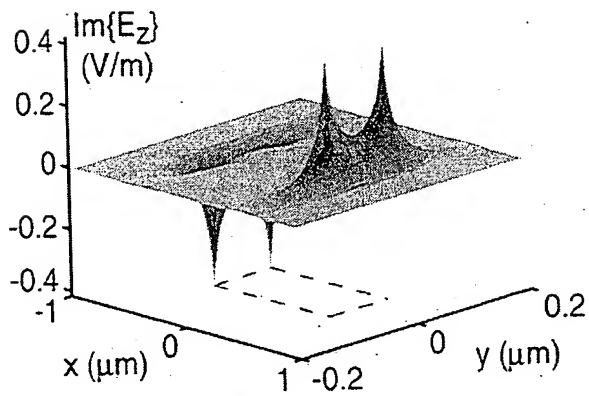
**FIG. 6(b)**



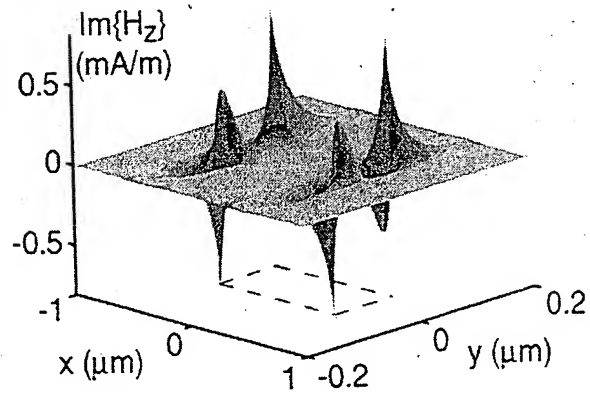
**FIG. 6(c)**



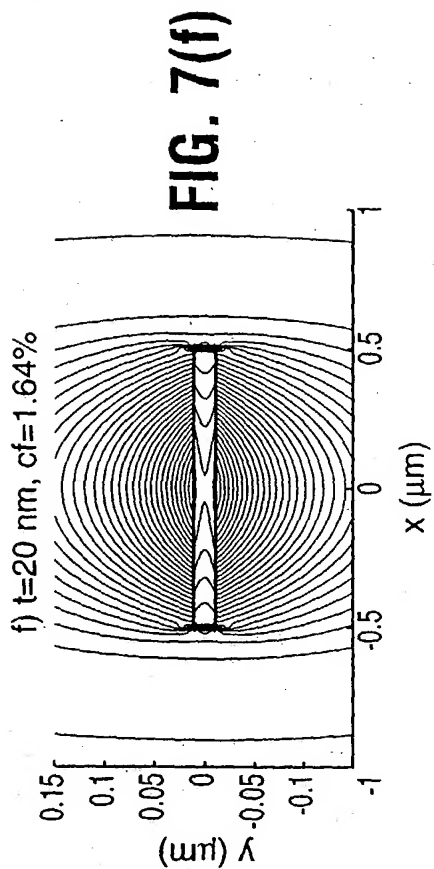
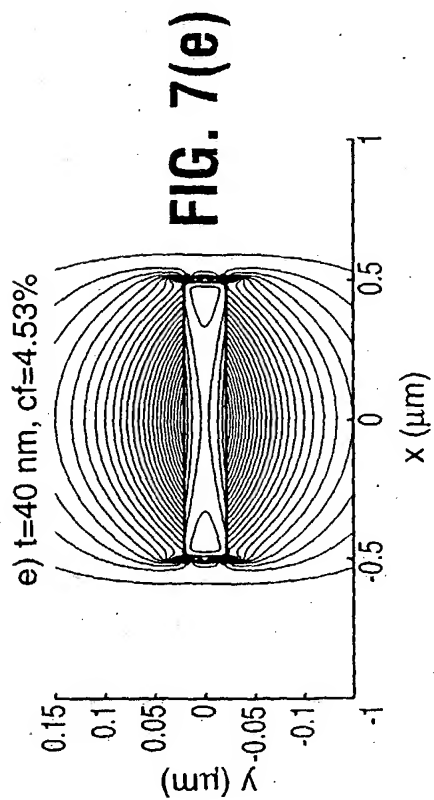
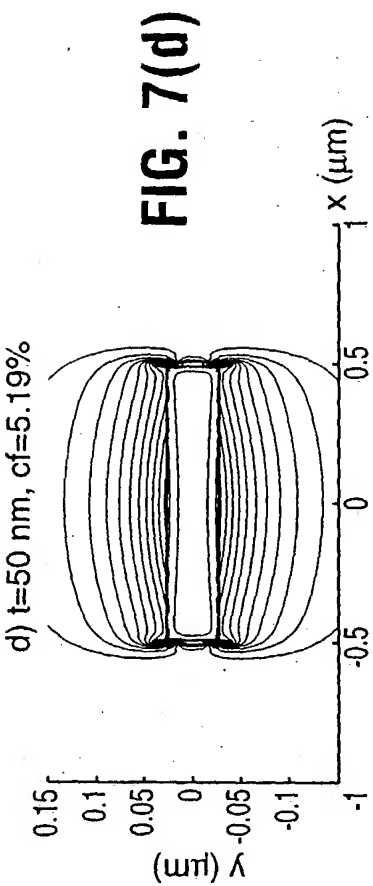
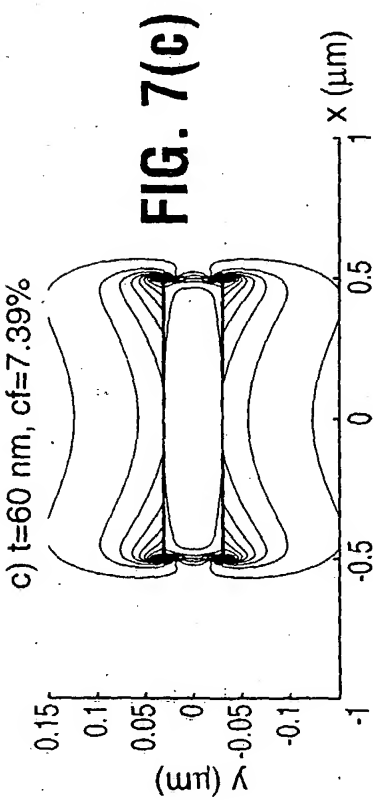
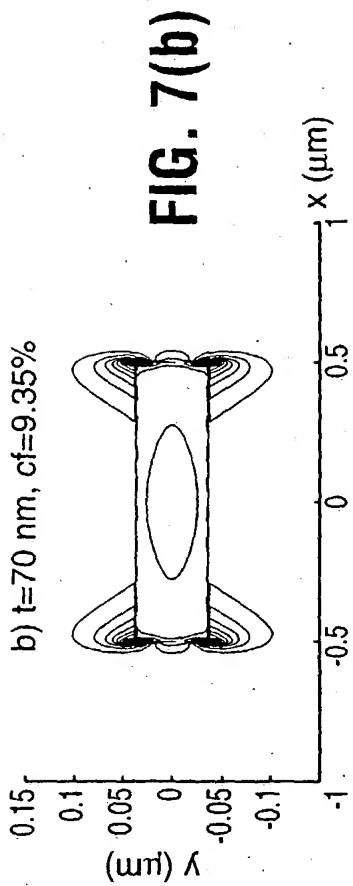
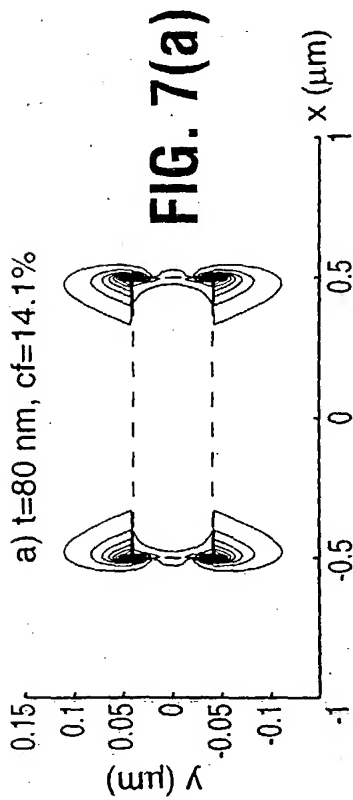
**FIG. 6(d)**



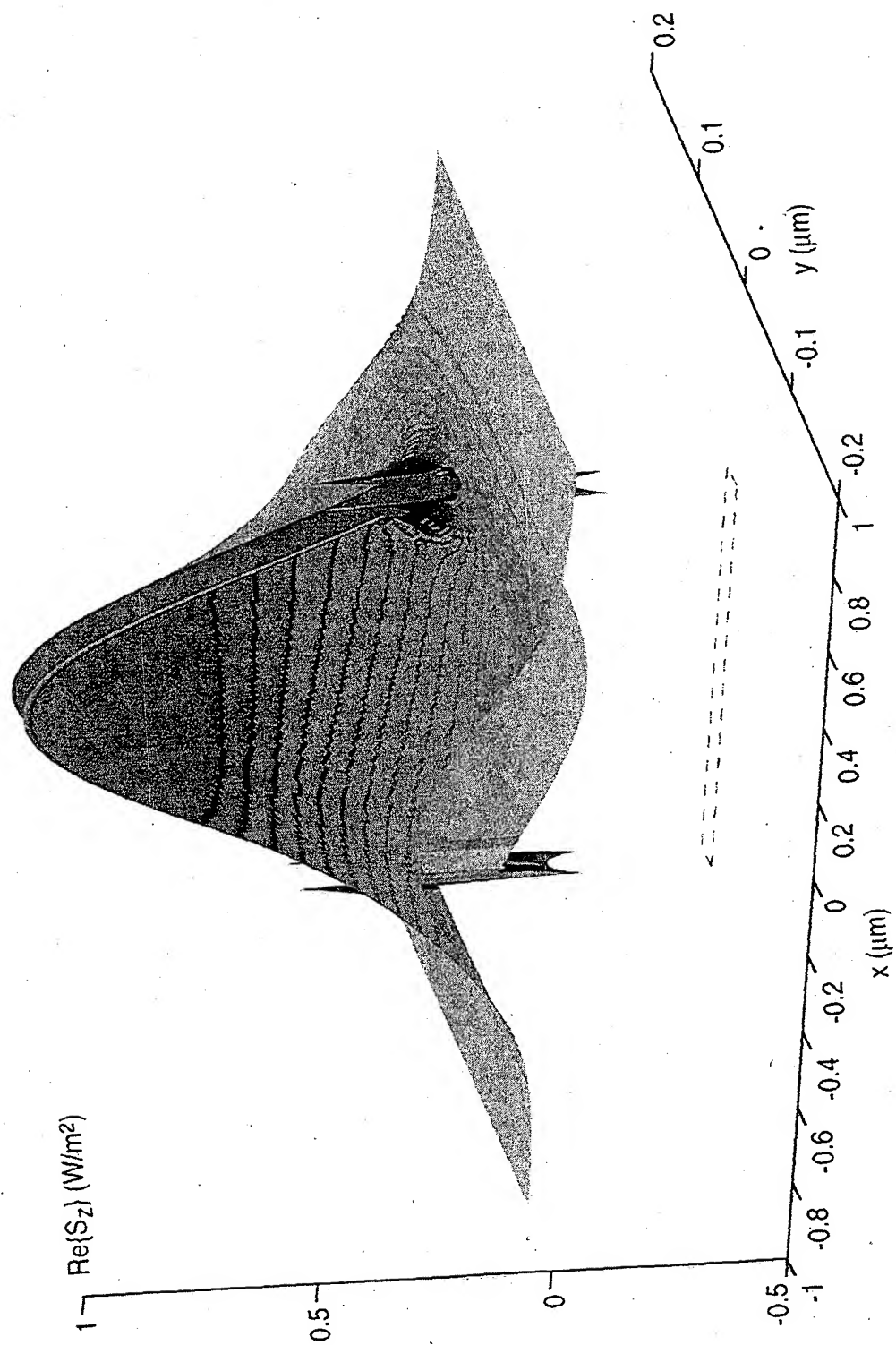
**FIG. 6(e)**



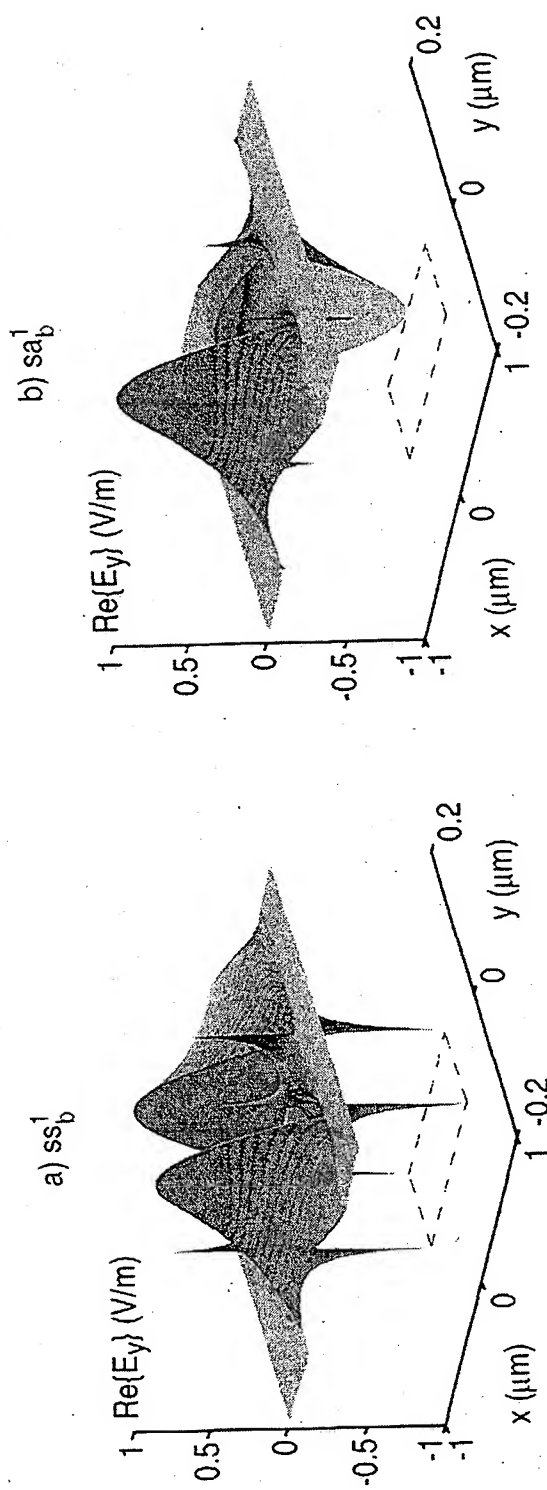
**FIG. 6(f)**



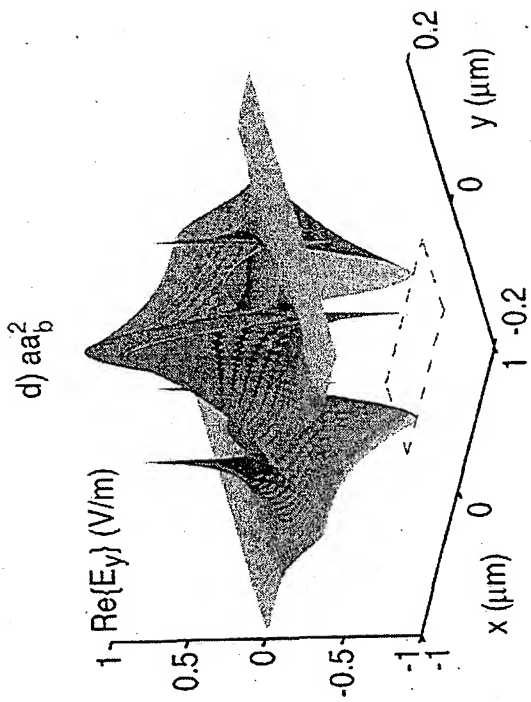




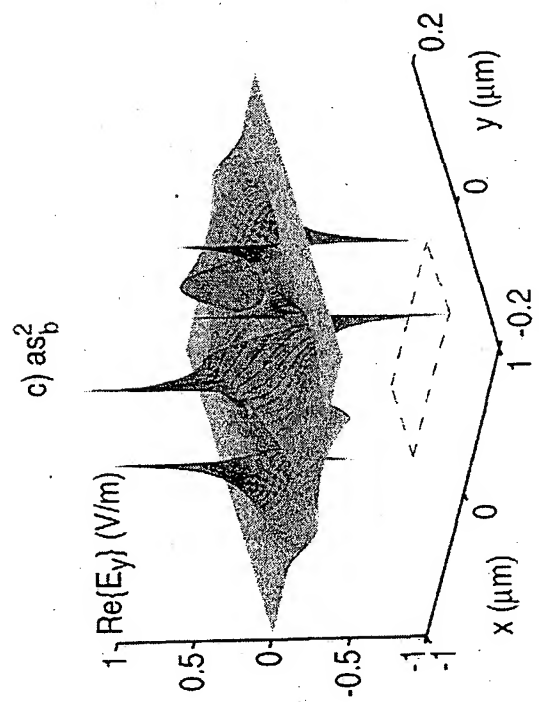
**FIG. 8**



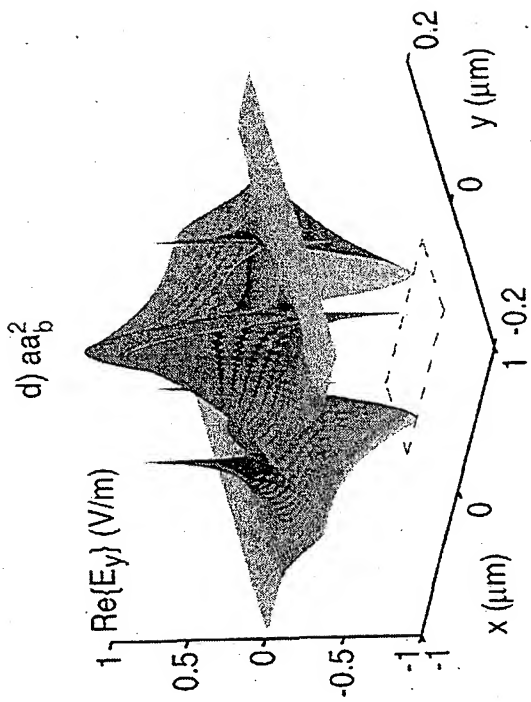
**FIG. 9(a)**



**FIG. 9(b)**



**FIG. 9(c)**



**FIG. 9(d)**

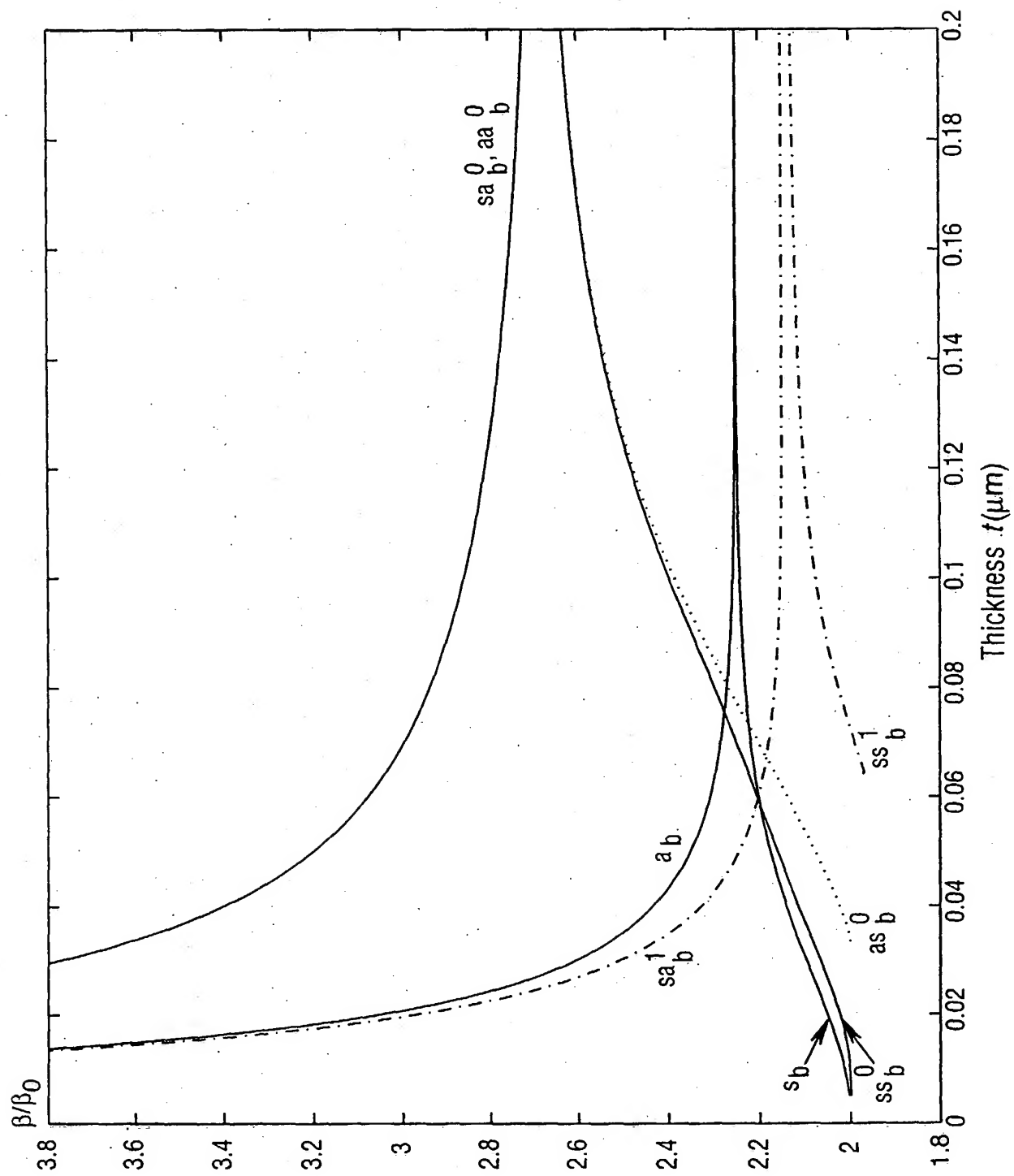
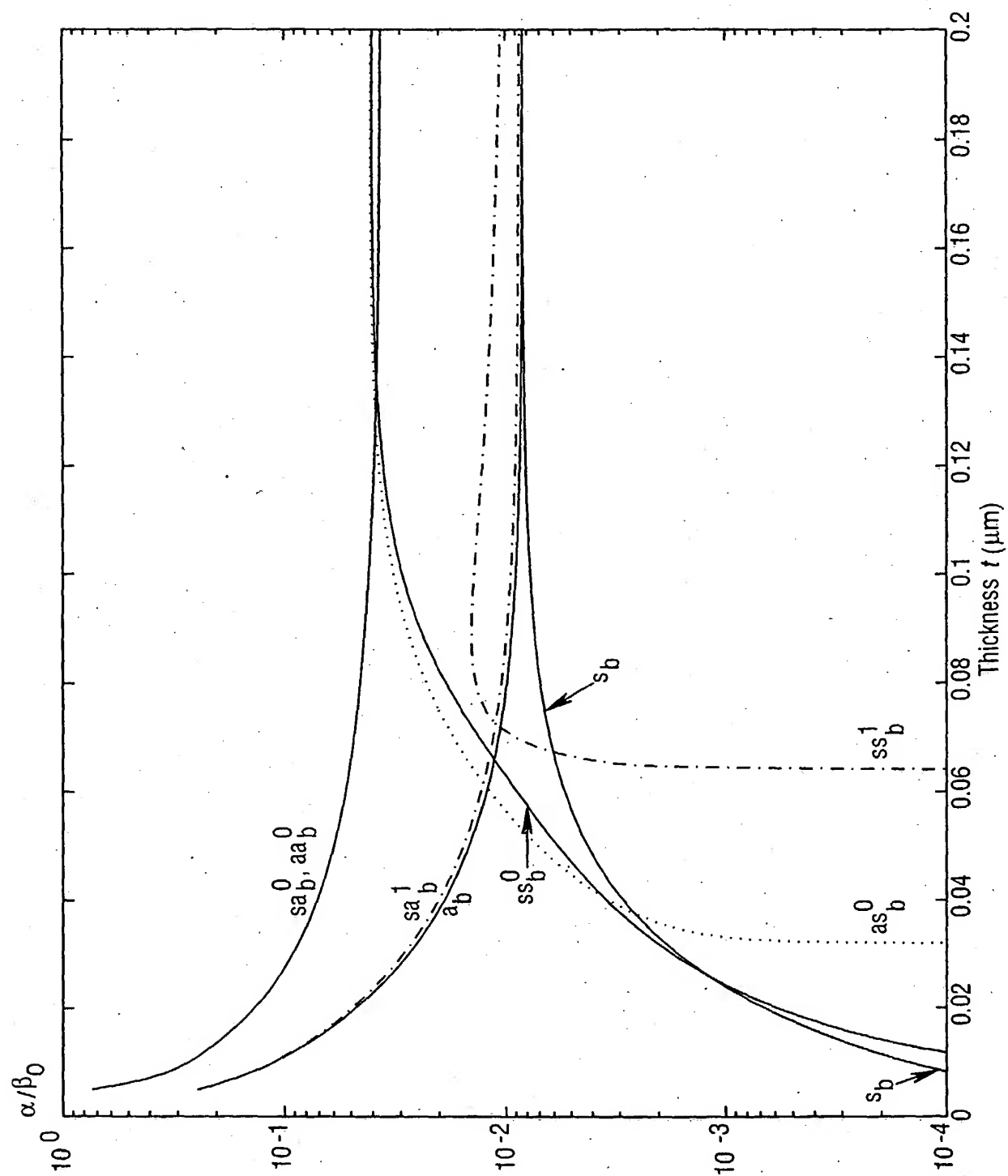


FIG. 10(a)



**FIG.10 (b)**

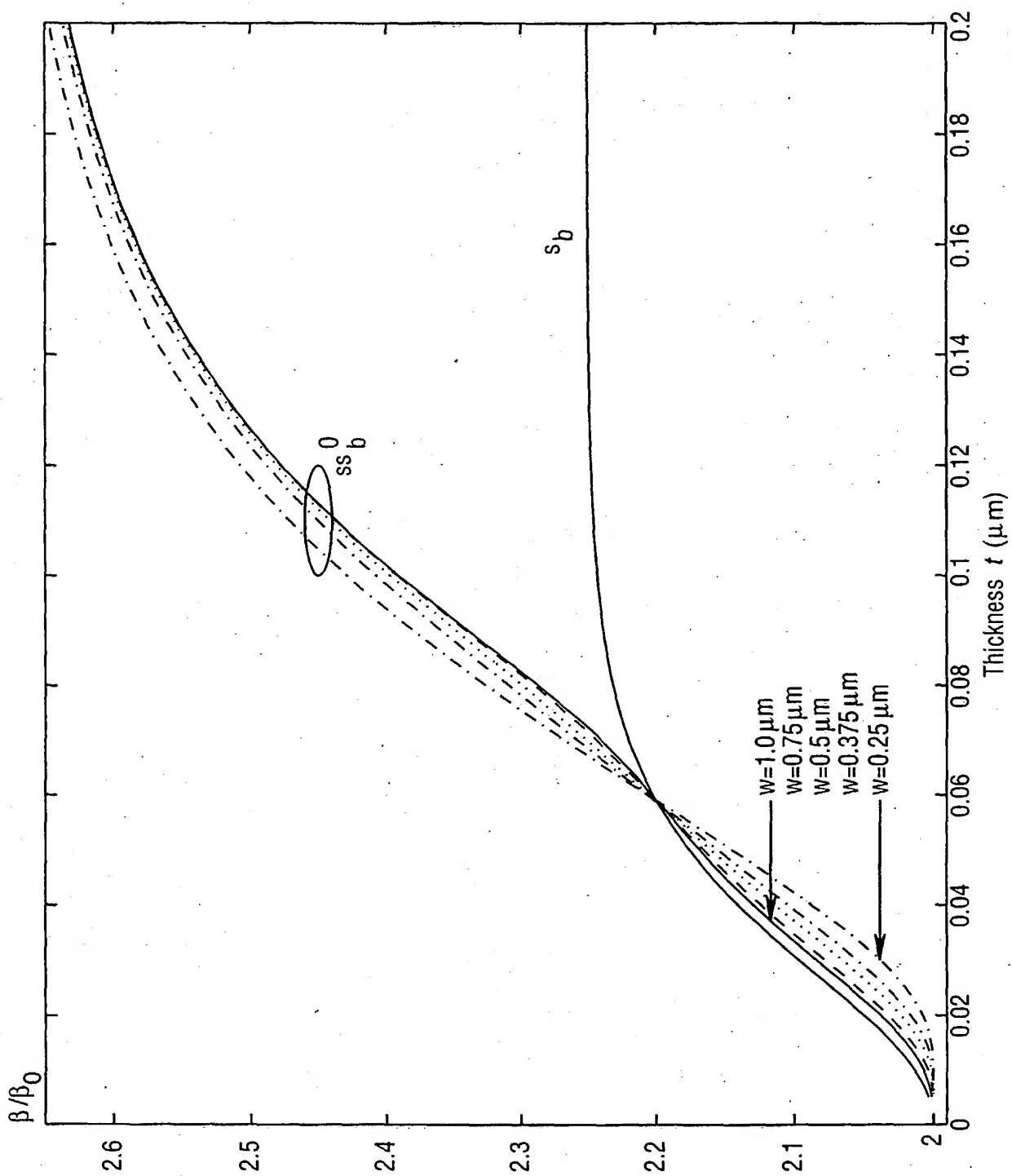
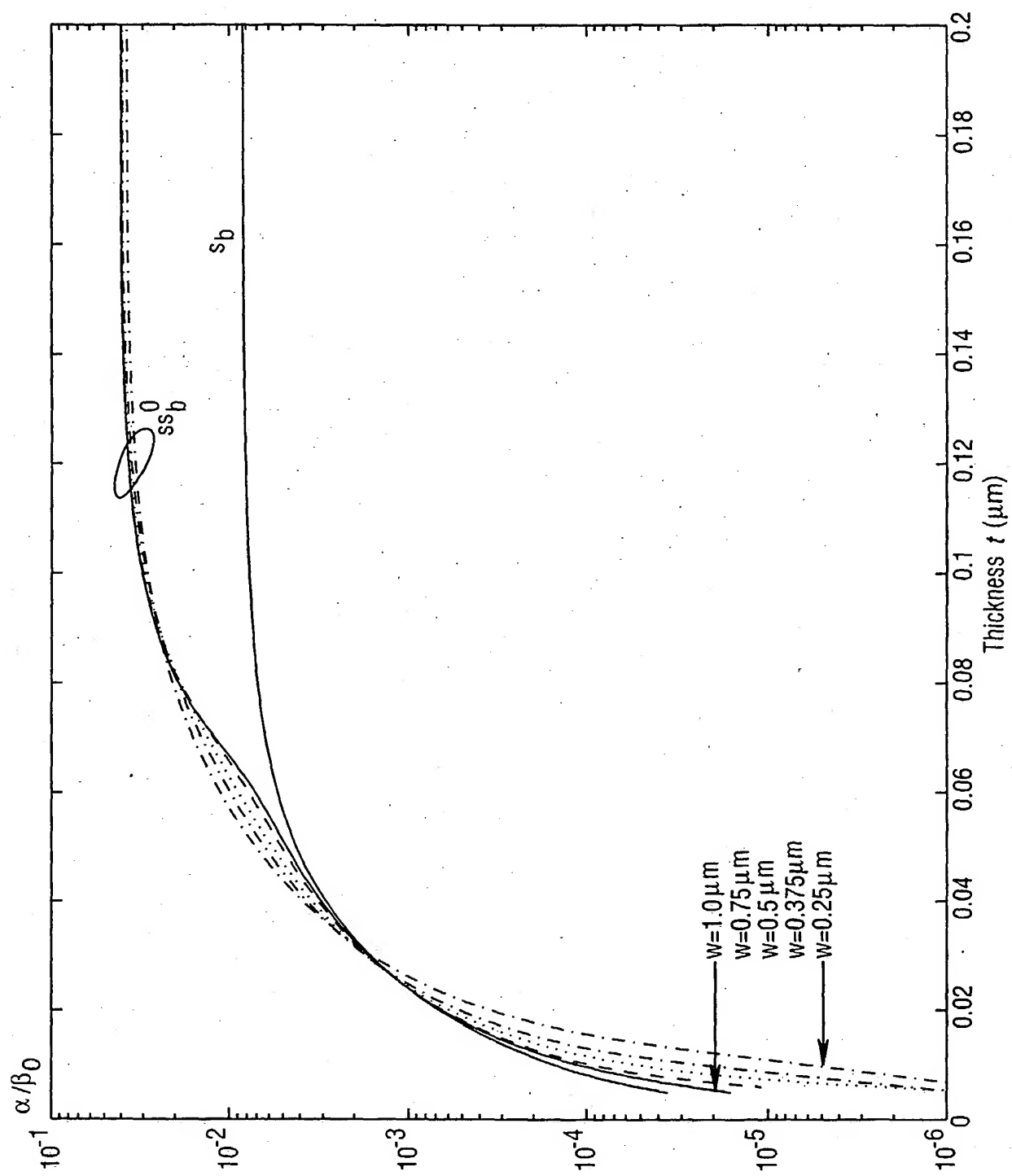


FIG. 11 (a)



**FIG. 11 (b)**

a)  $w=0.25\mu\text{m}$ ,  $cf=0.707\%$

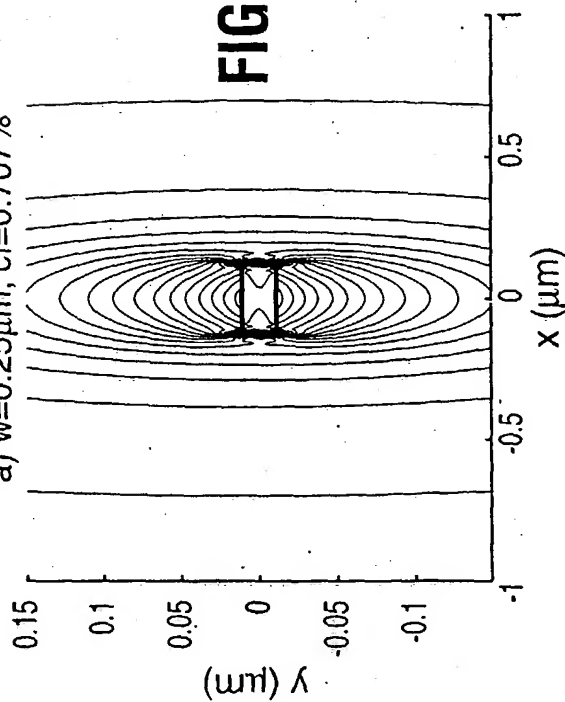


FIG. 12(a)

b)  $w=0.5\mu\text{m}$ ,  $cf=1.33\%$

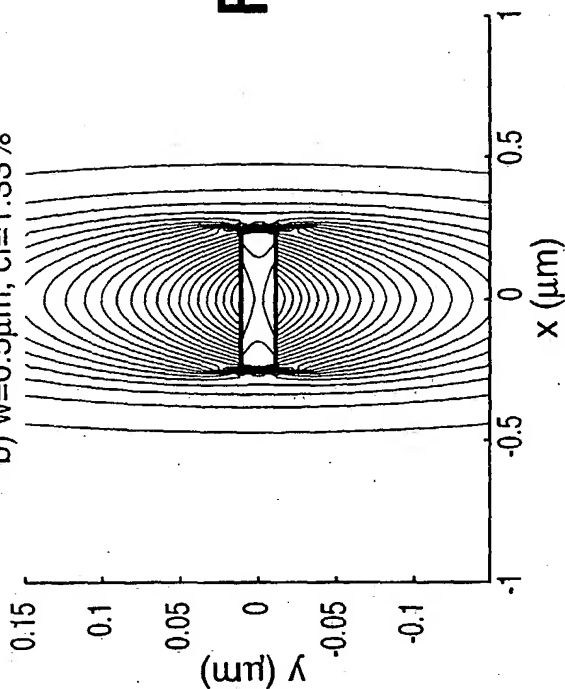


FIG. 12(b)

c)  $w=0.7\mu\text{m}$ ,  $cf=1.55\%$

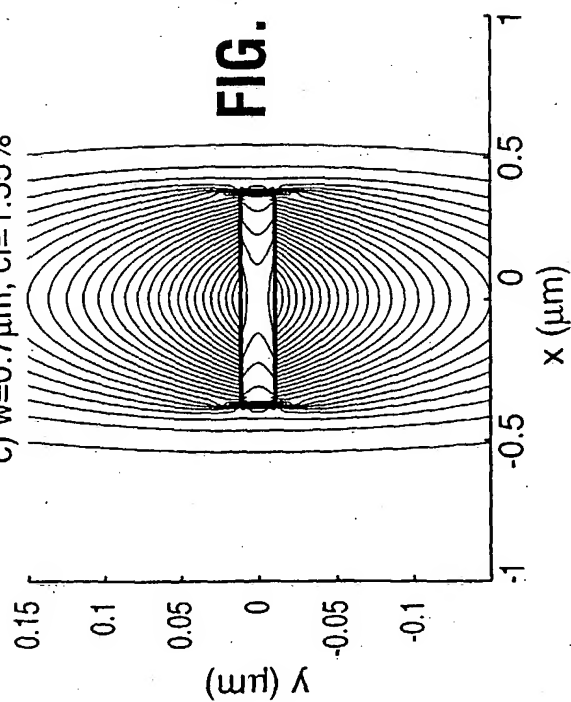


FIG. 12(c)

d)  $w=1.0\mu\text{m}$ ,  $cf=1.64\%$

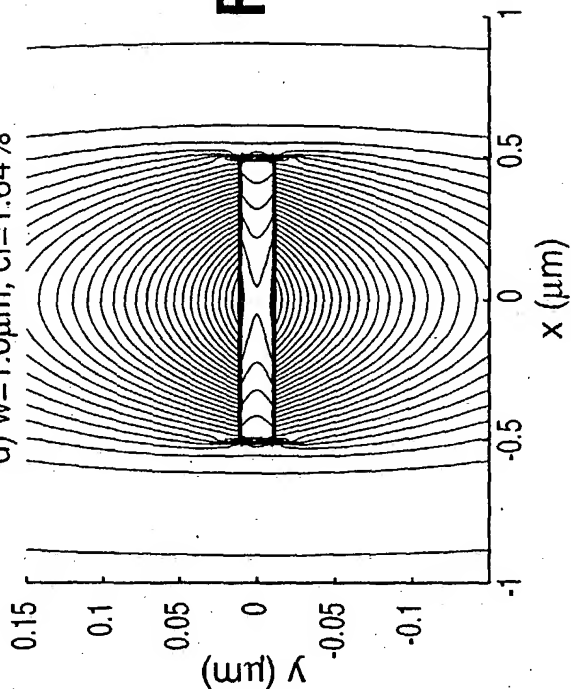


FIG. 12(d)

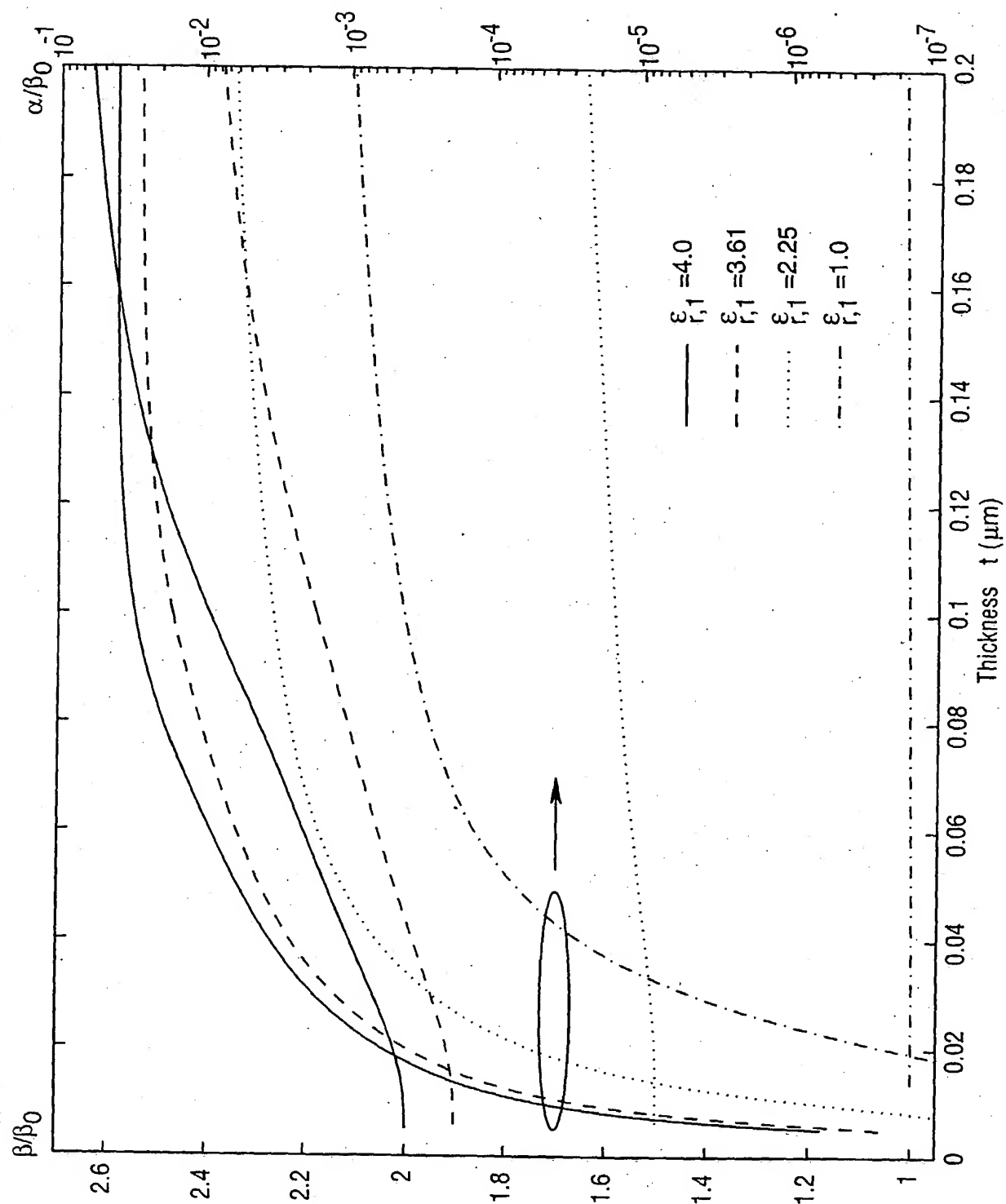


FIG. 13



a)  $\epsilon_{r,1}=4.0$

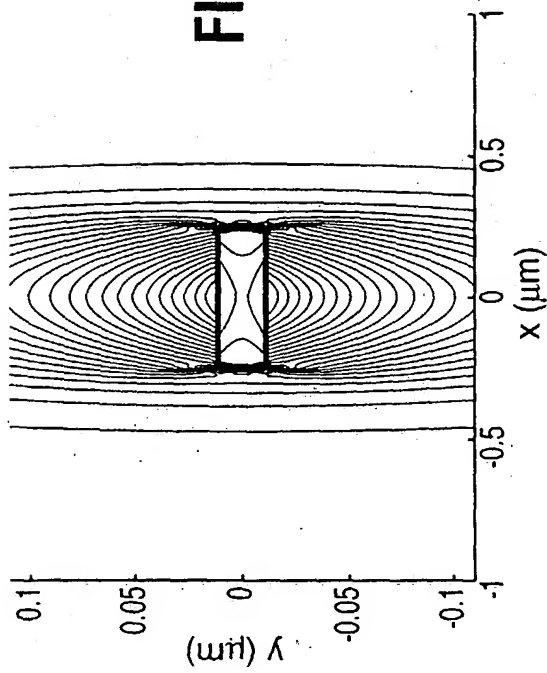


FIG. 14(a)

b)  $\epsilon_{r,1}=3.61$

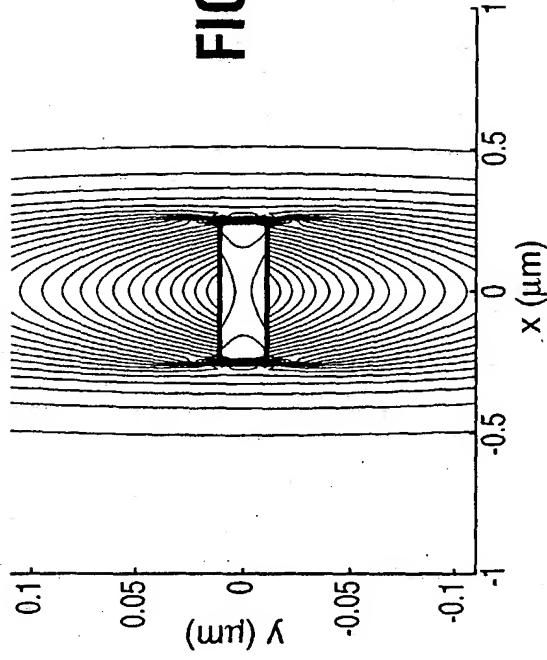


FIG. 14(b)

c)  $\epsilon_{r,1}=2.25$

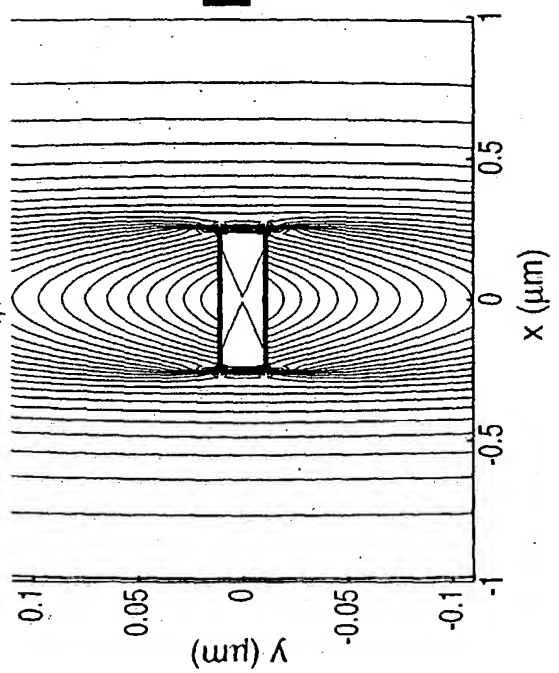


FIG. 14(c)

d)  $\epsilon_{r,1}=1.0$

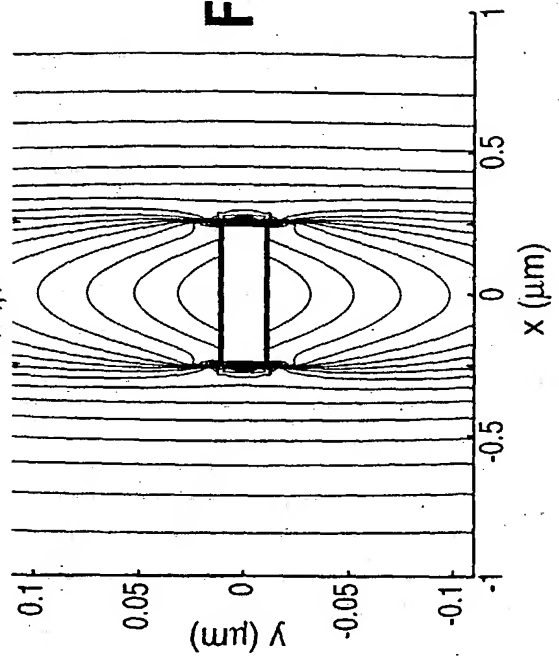


FIG. 14(d)

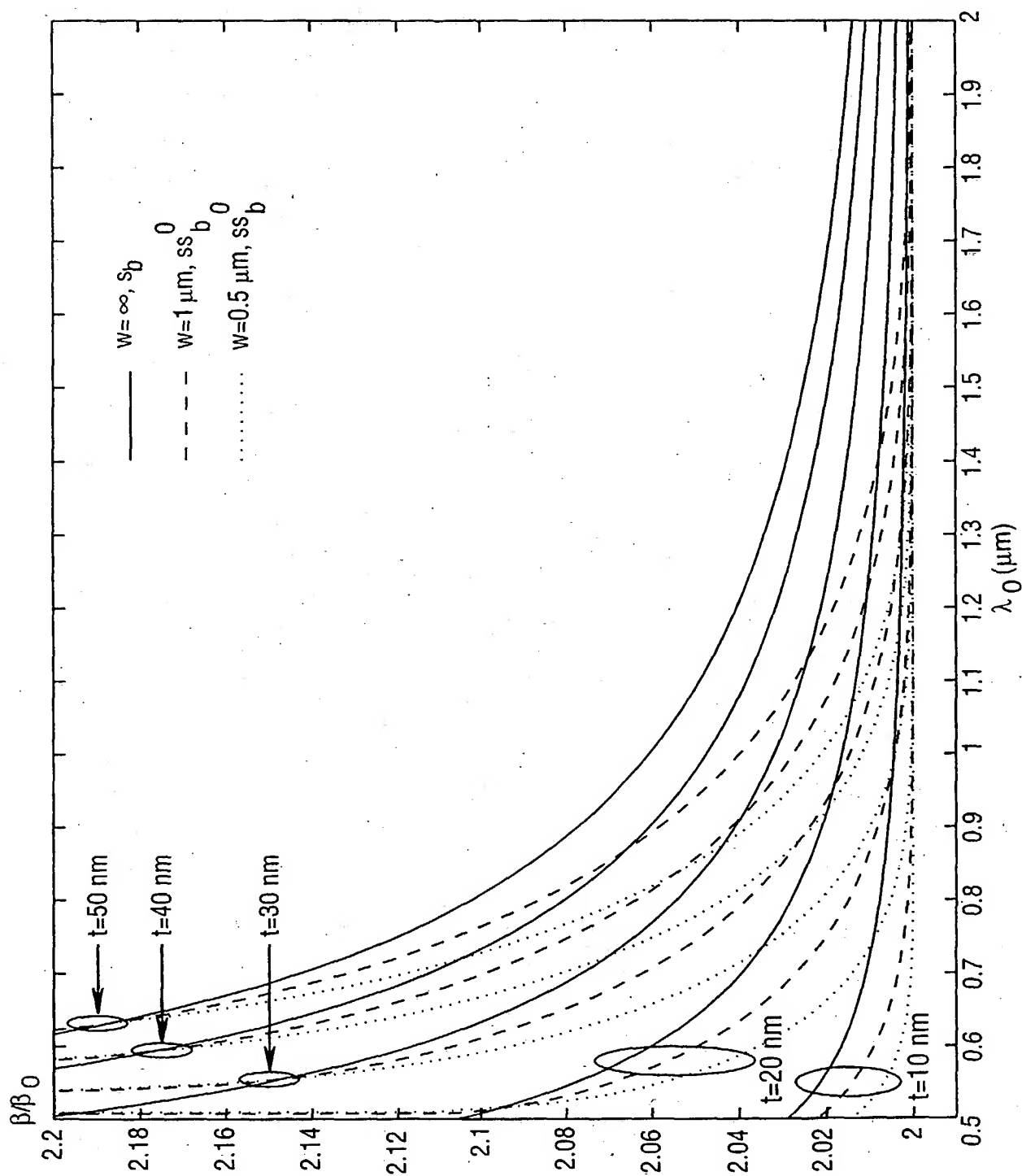
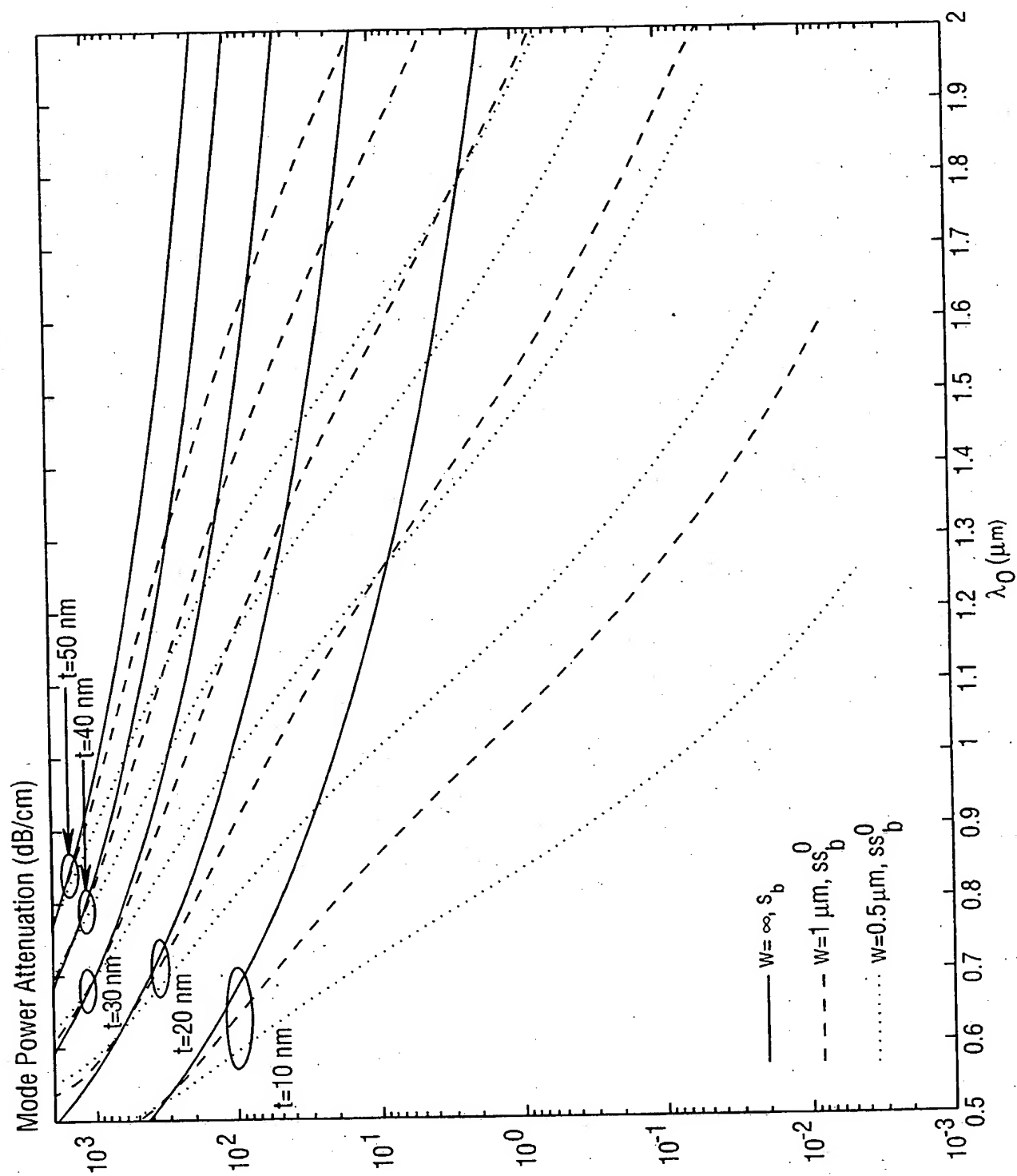
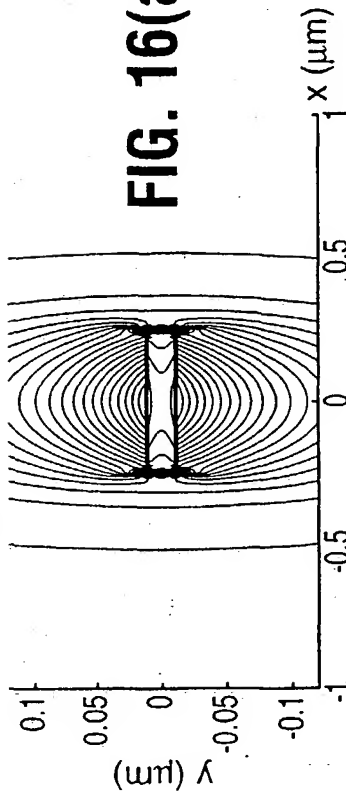


FIG. 15 (a)



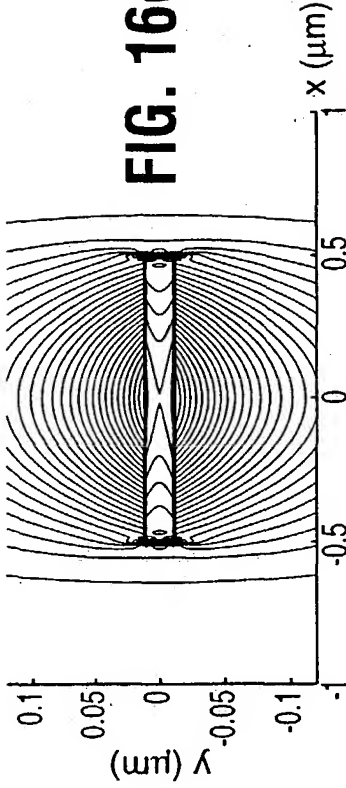
**FIG. 15 (b)**

a)  $\lambda_0 = 0.6 \mu\text{m}$ ,  $w = 0.5 \mu\text{m}$



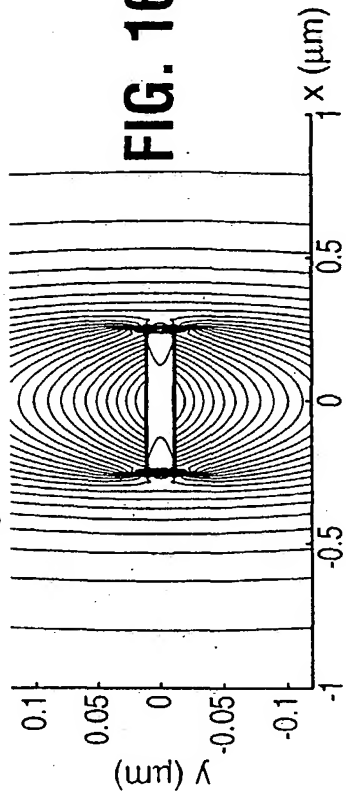
**FIG. 16(a)**

b)  $\lambda_0 = 0.6 \mu\text{m}$ ,  $w = 1.0 \mu\text{m}$



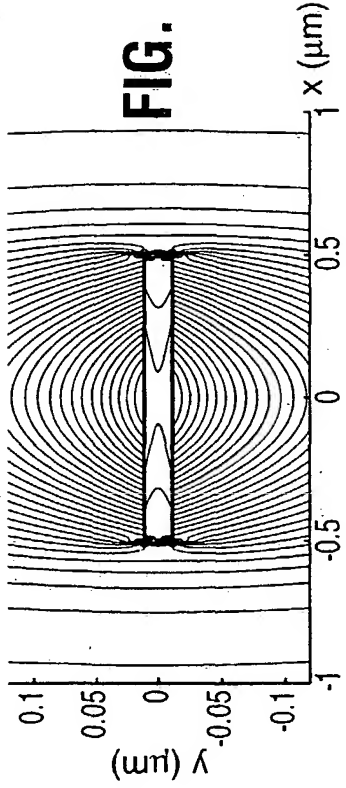
**FIG. 16(b)**

c)  $\lambda_0 = 0.8 \mu\text{m}$ ,  $w = 0.5 \mu\text{m}$



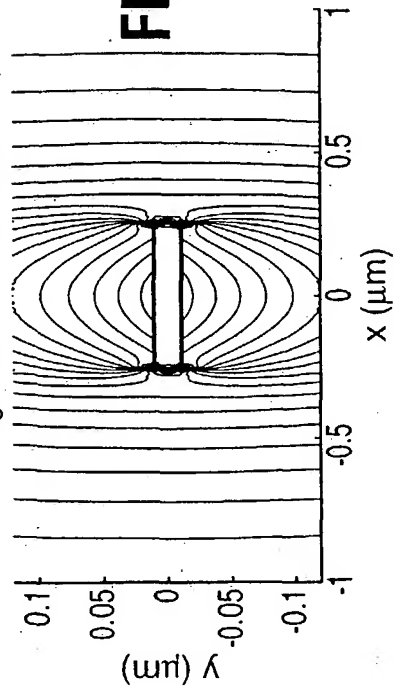
**FIG. 16(c)**

d)  $\lambda_0 = 0.8 \mu\text{m}$ ,  $w = 1.0 \mu\text{m}$



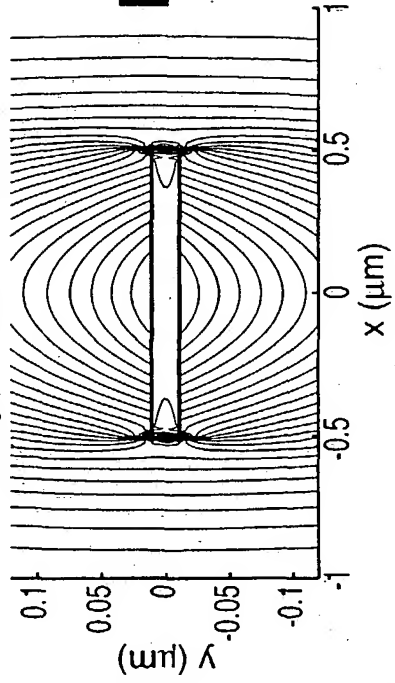
**FIG. 16(d)**

e)  $\lambda_0 = 1.2 \mu\text{m}$ ,  $w = 0.5 \mu\text{m}$

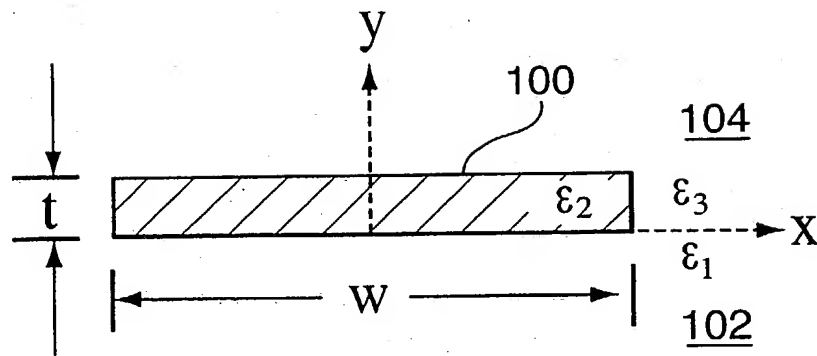


**FIG. 16(e)**

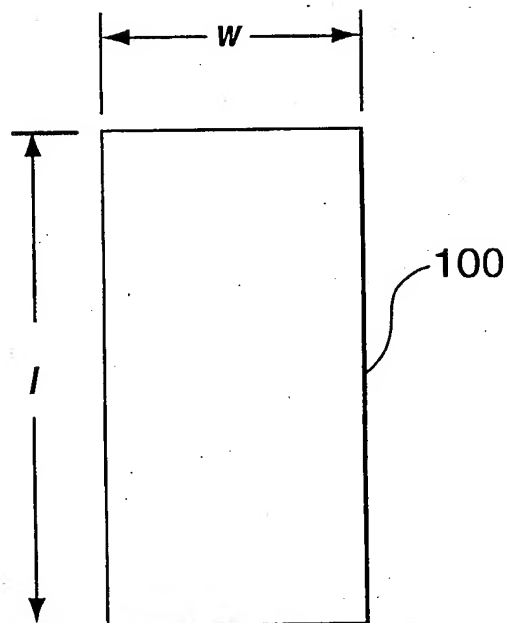
f)  $\lambda_0 = 1.2 \mu\text{m}$ ,  $w = 1.0 \mu\text{m}$



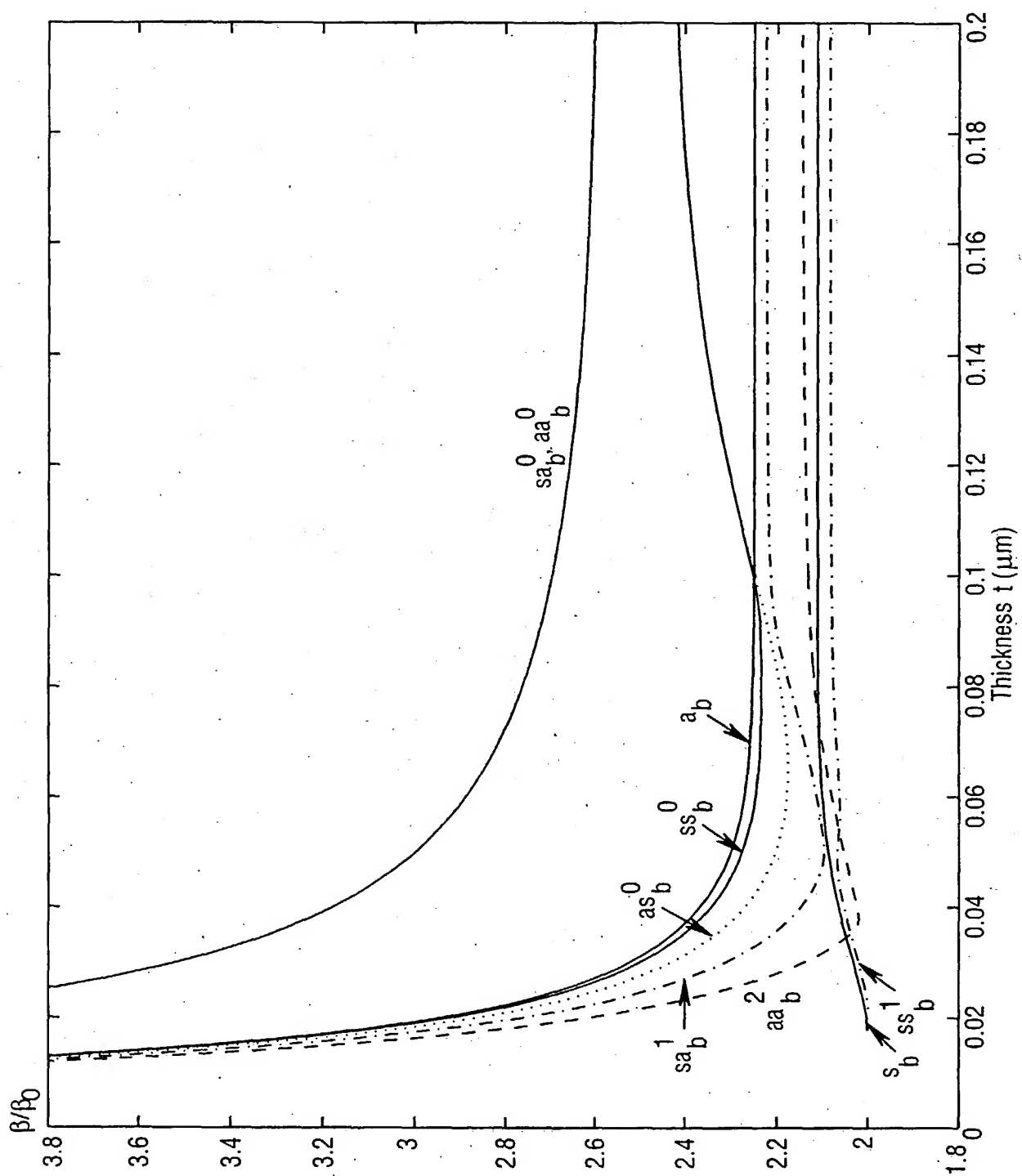
**FIG. 16(f)**



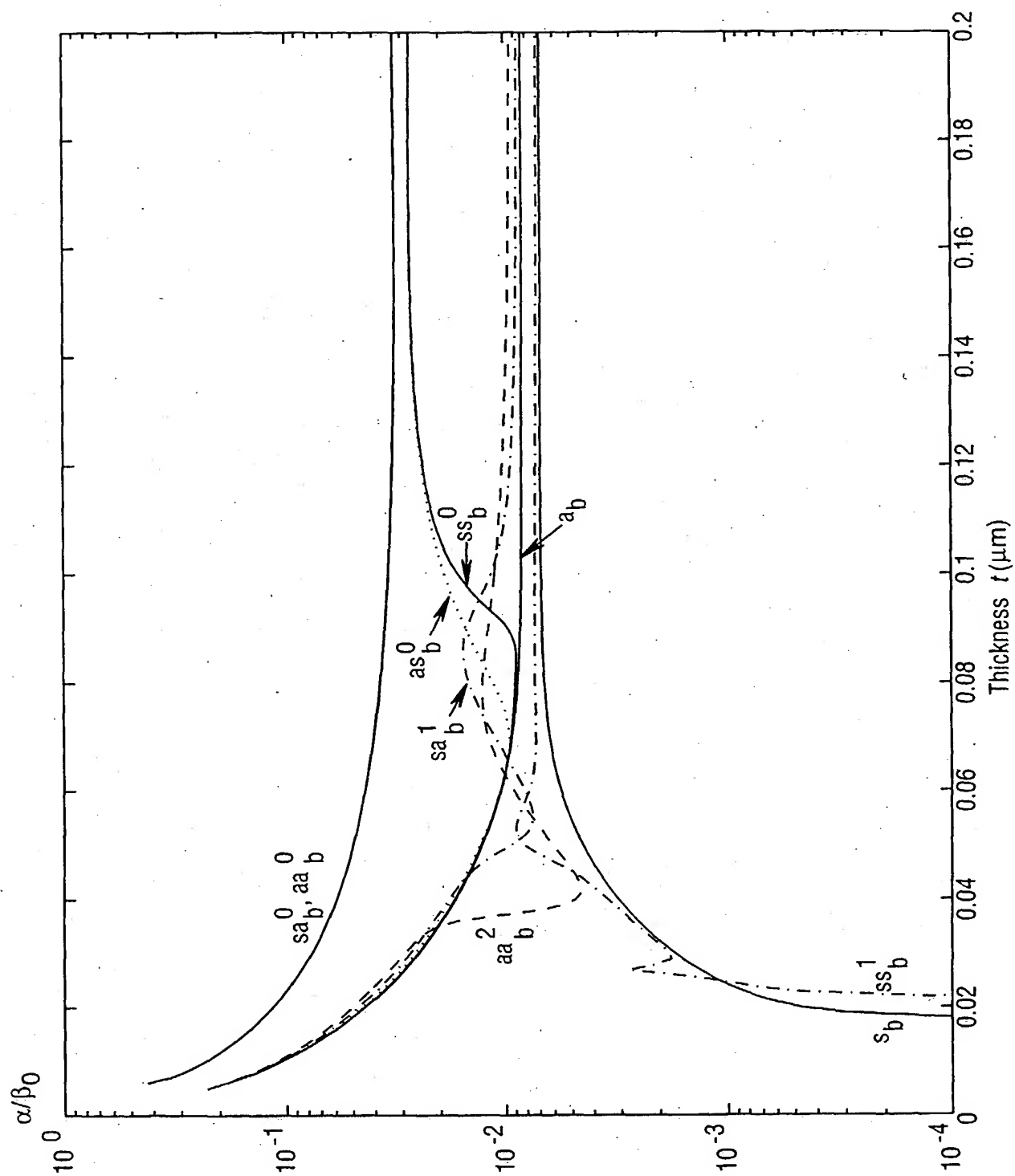
**FIG. 17 (a)**



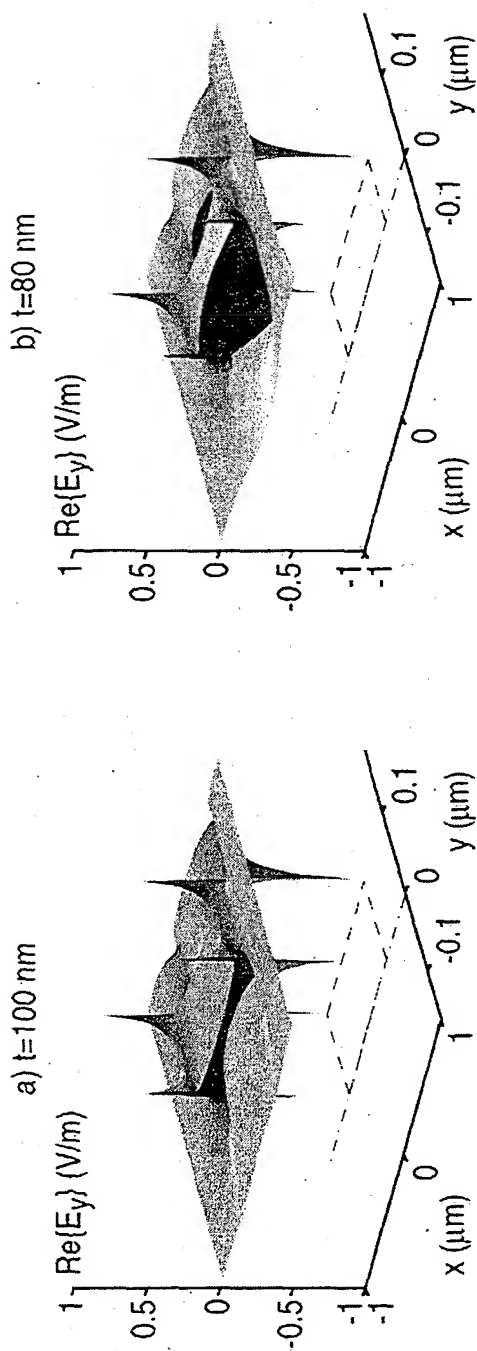
**FIG. 17 (b)**



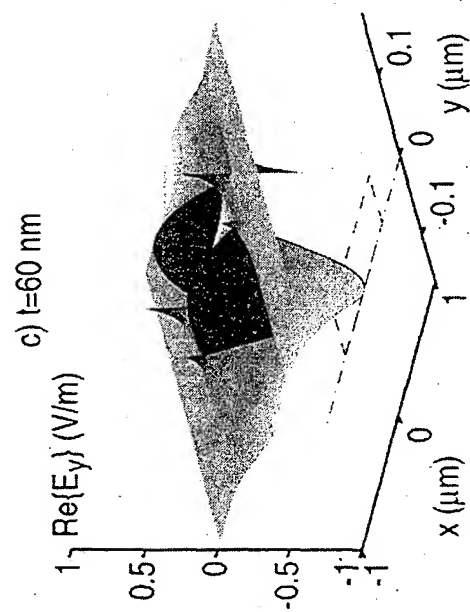
**FIG. 18(a)**



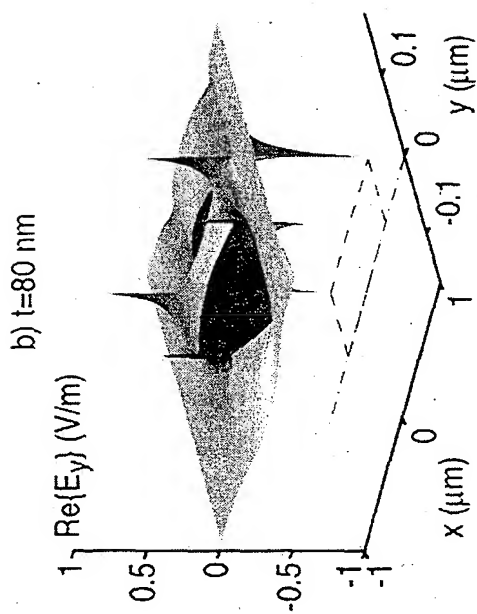
**FIG. 18(b)**



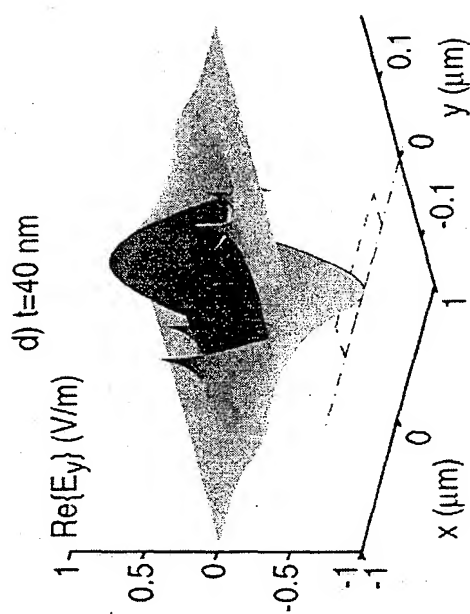
**FIG. 19(a)**



**FIG. 19(c)**



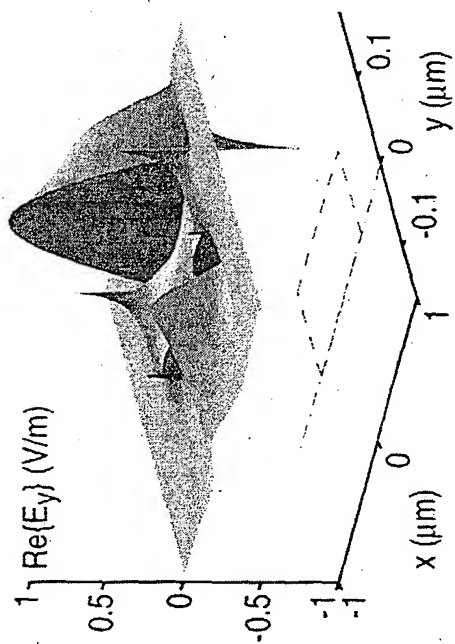
**FIG. 19(b)**



**FIG. 19(d)**

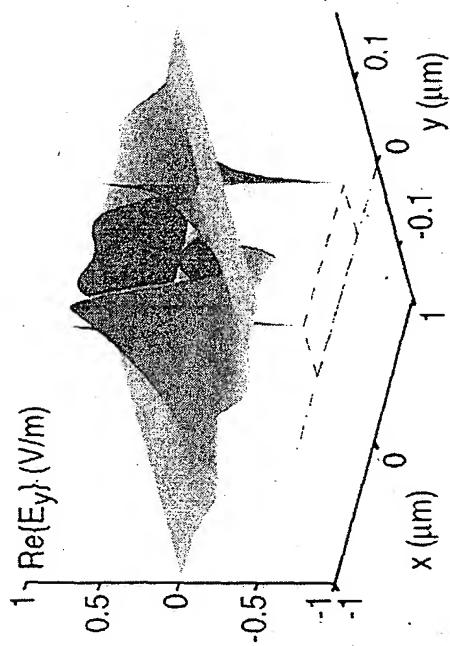


a)  $ss_b^1$ ,  $t=100$  nm



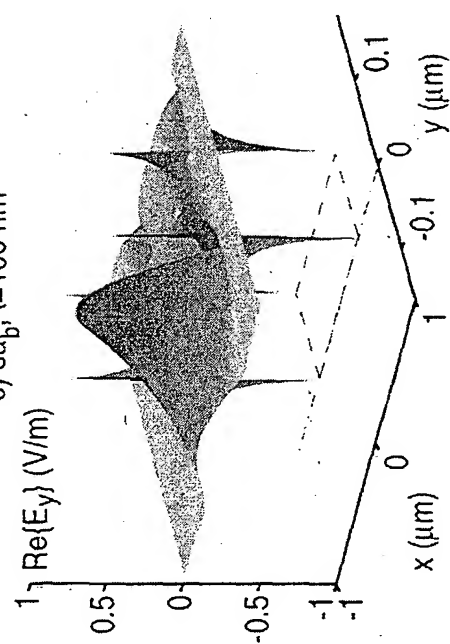
**FIG. 20(a)**

b)  $ss_b^1$ ,  $t=60$  nm



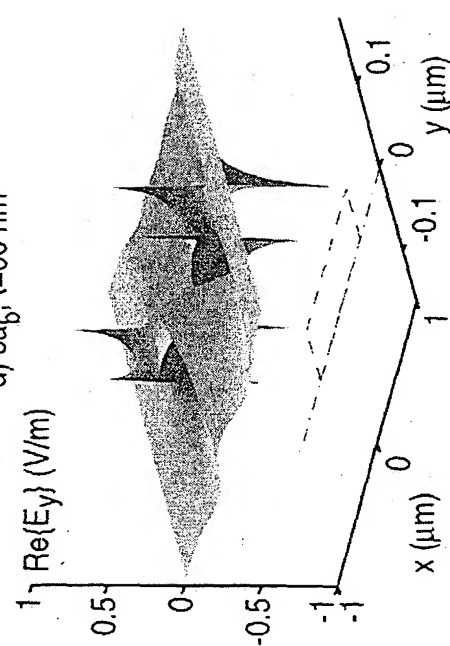
**FIG. 20(b)**

c)  $sa_b^1$ ,  $t=100$  nm



**FIG. 20(c)**

d)  $sa_b^1$ ,  $t=60$  nm



**FIG. 20(d)**

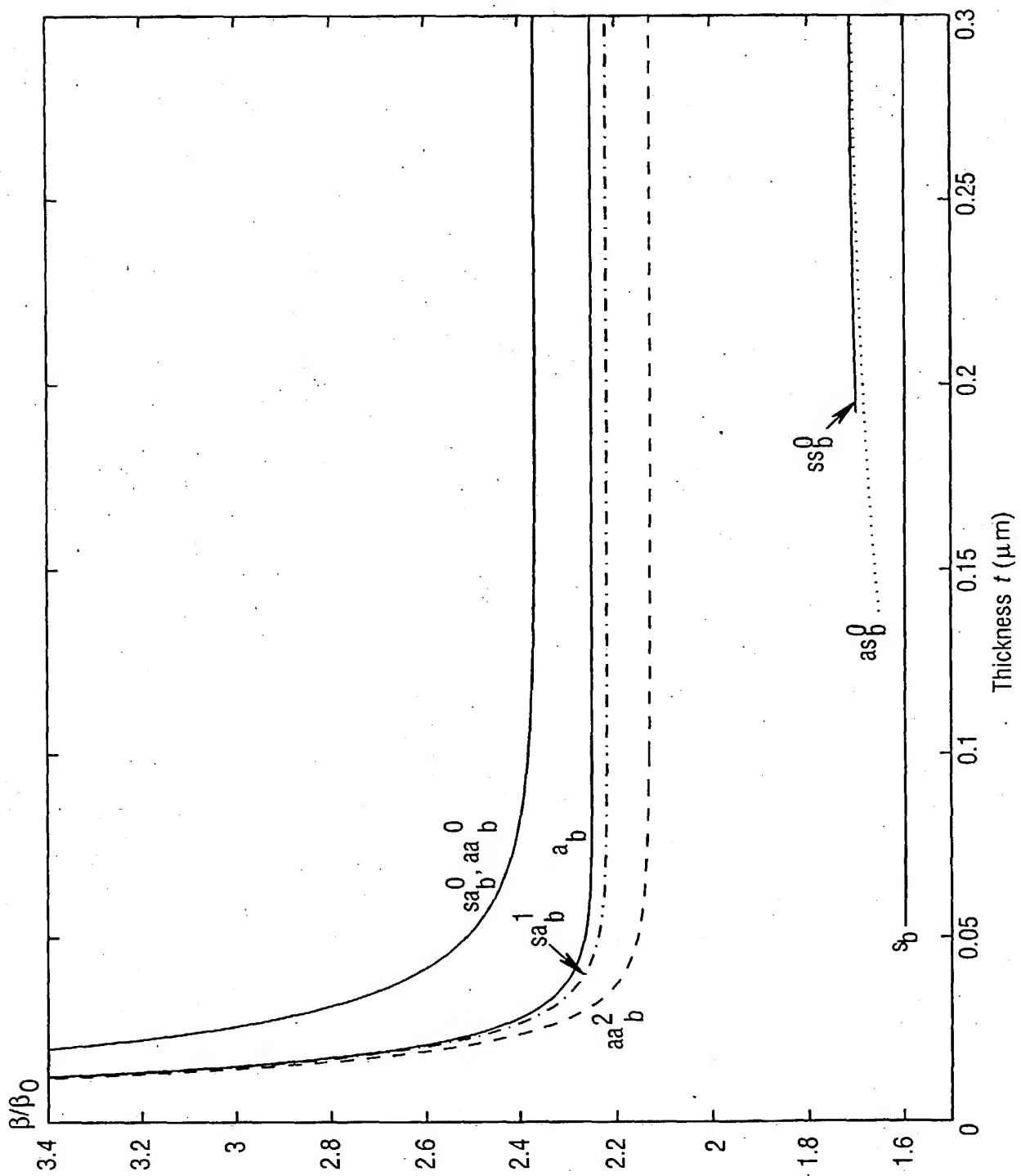
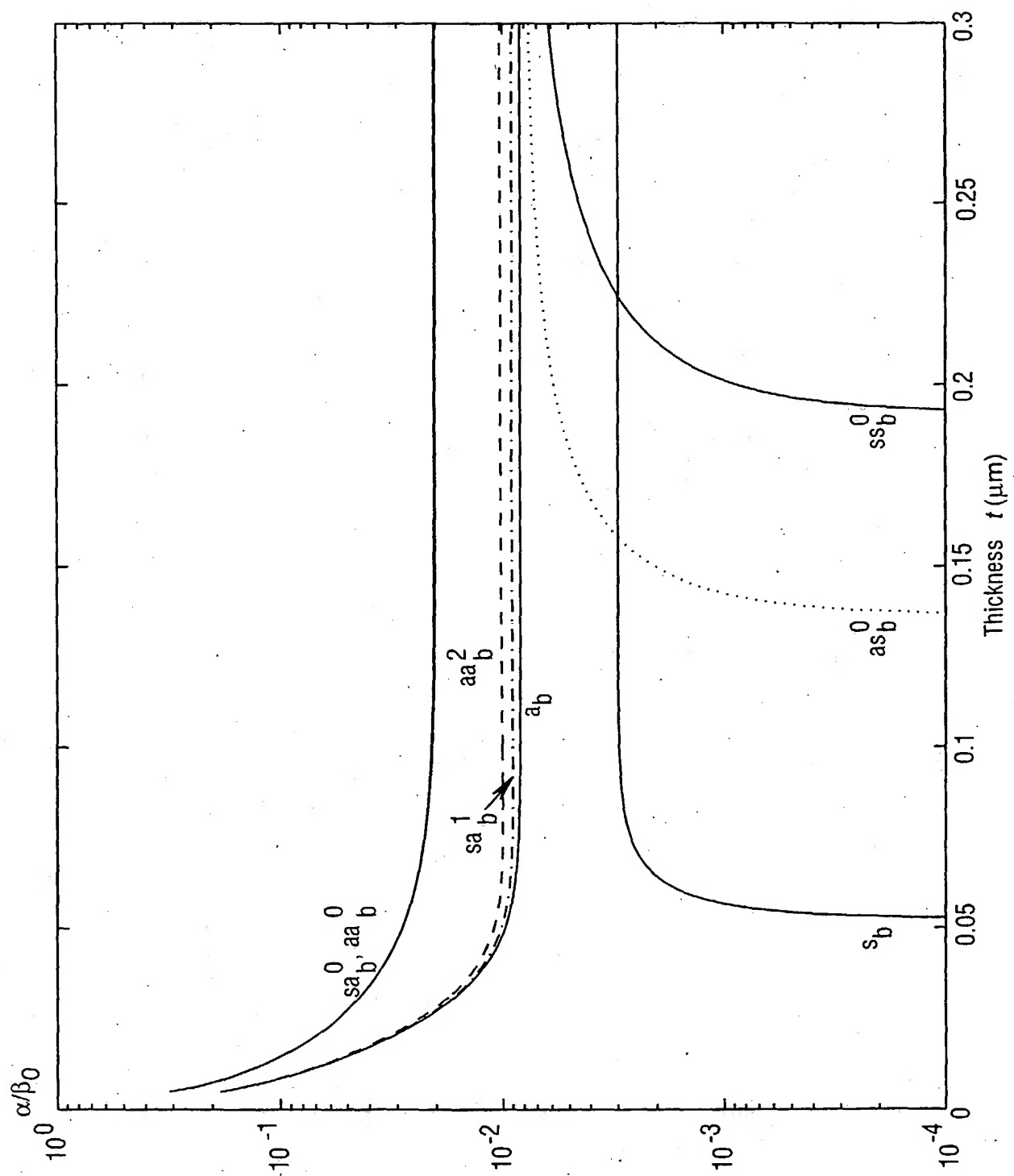
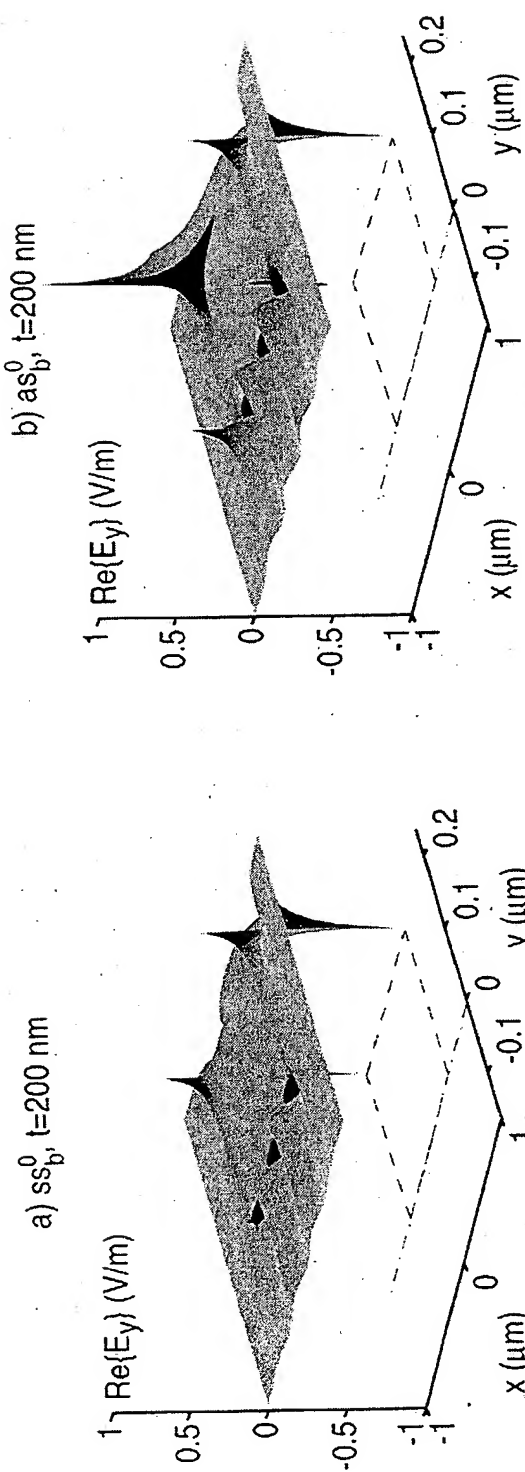


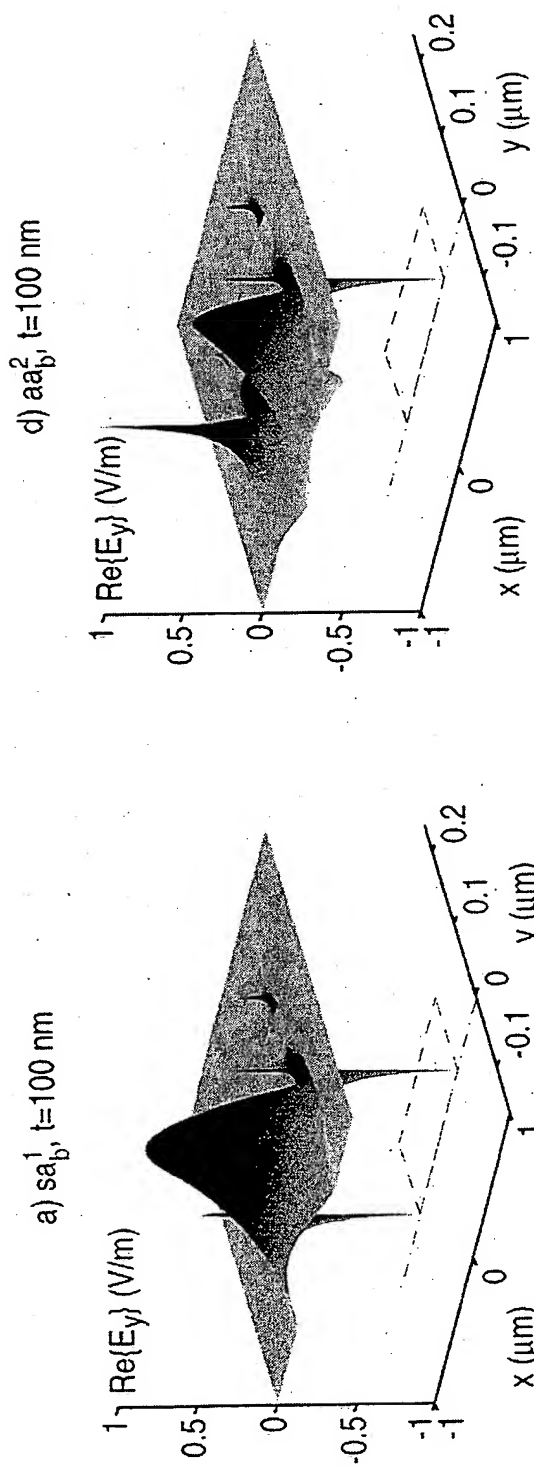
FIG. 21(a)



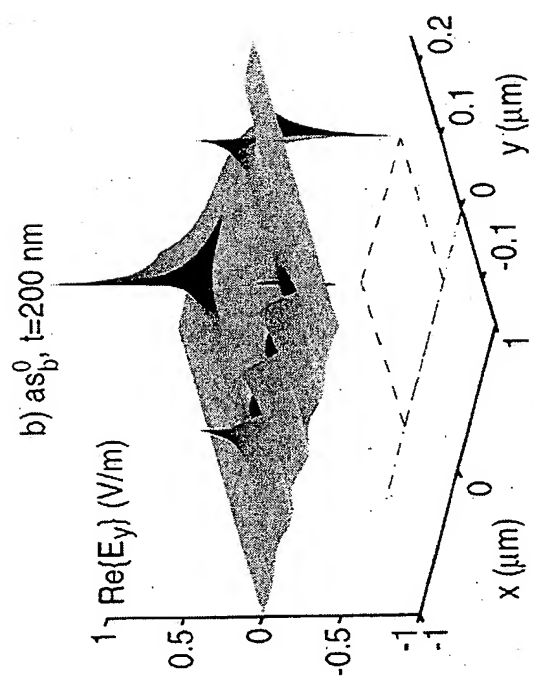
**FIG. 21(b)**



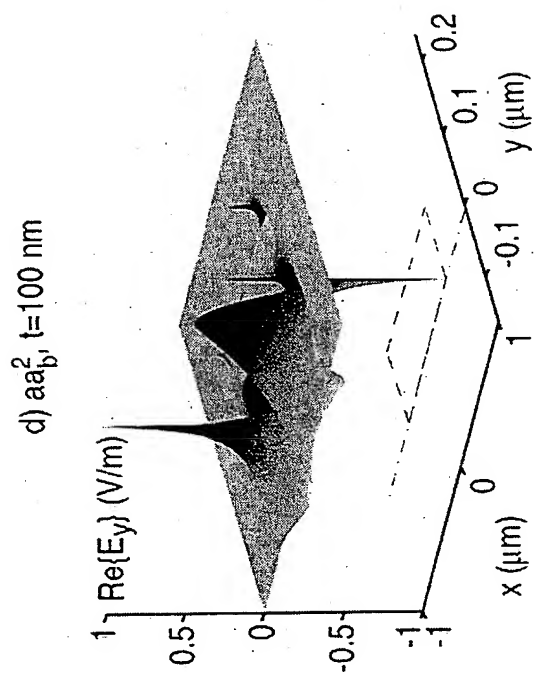
**FIG. 22(a)**



**FIG. 22(c)**



**FIG. 22(b)**



**FIG. 22(d)**

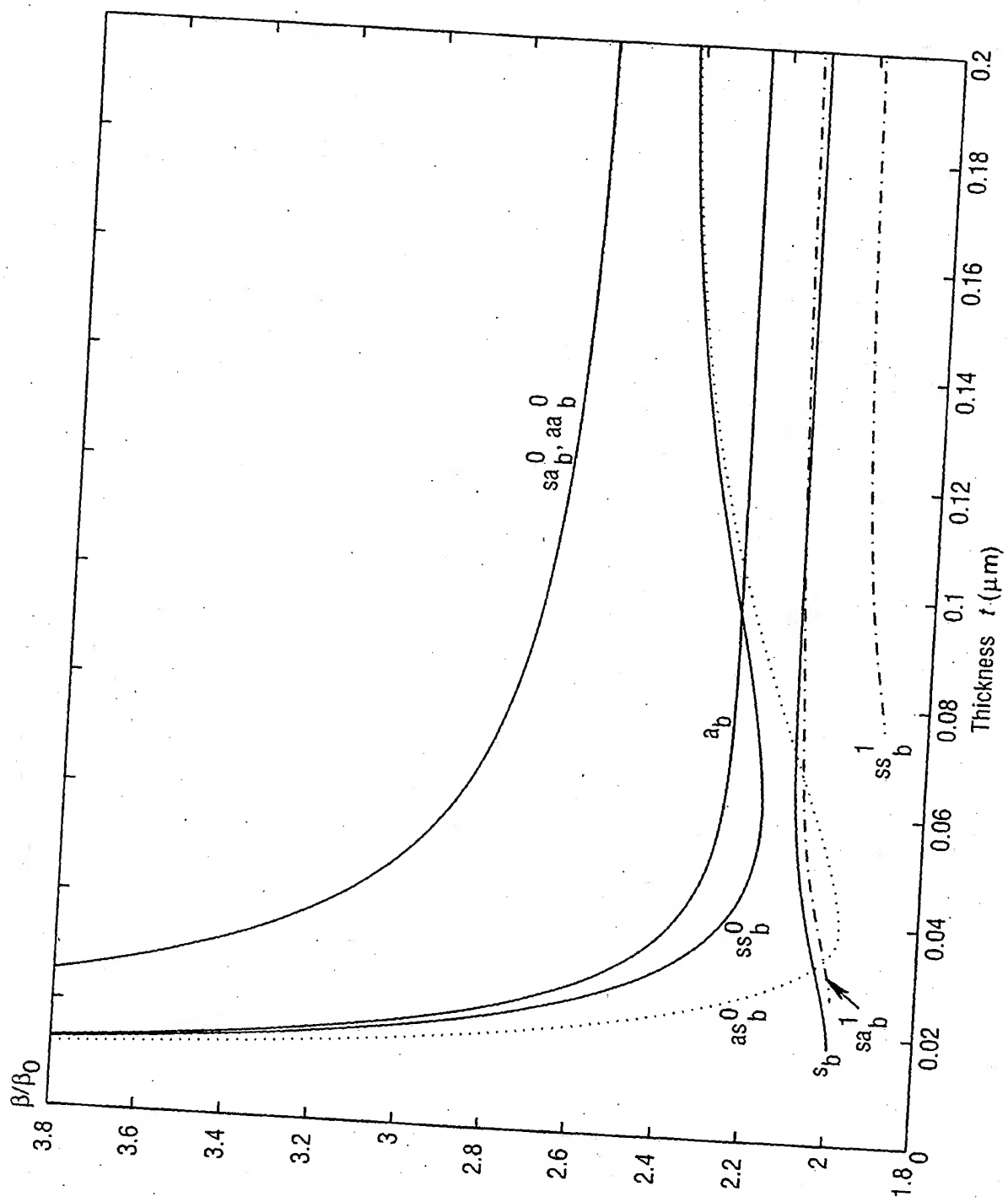


FIG. 23(a)

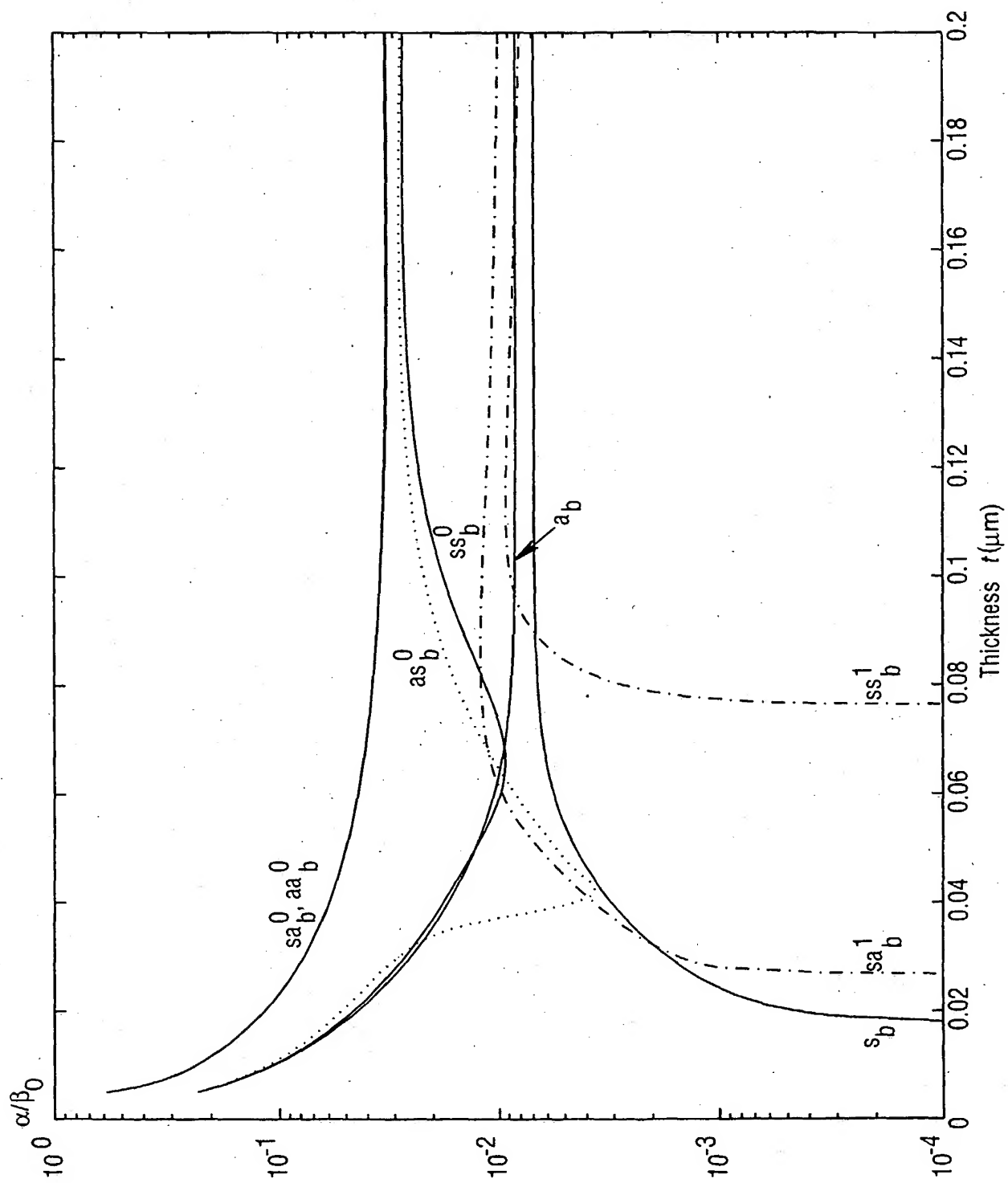


FIG. 23 (b)

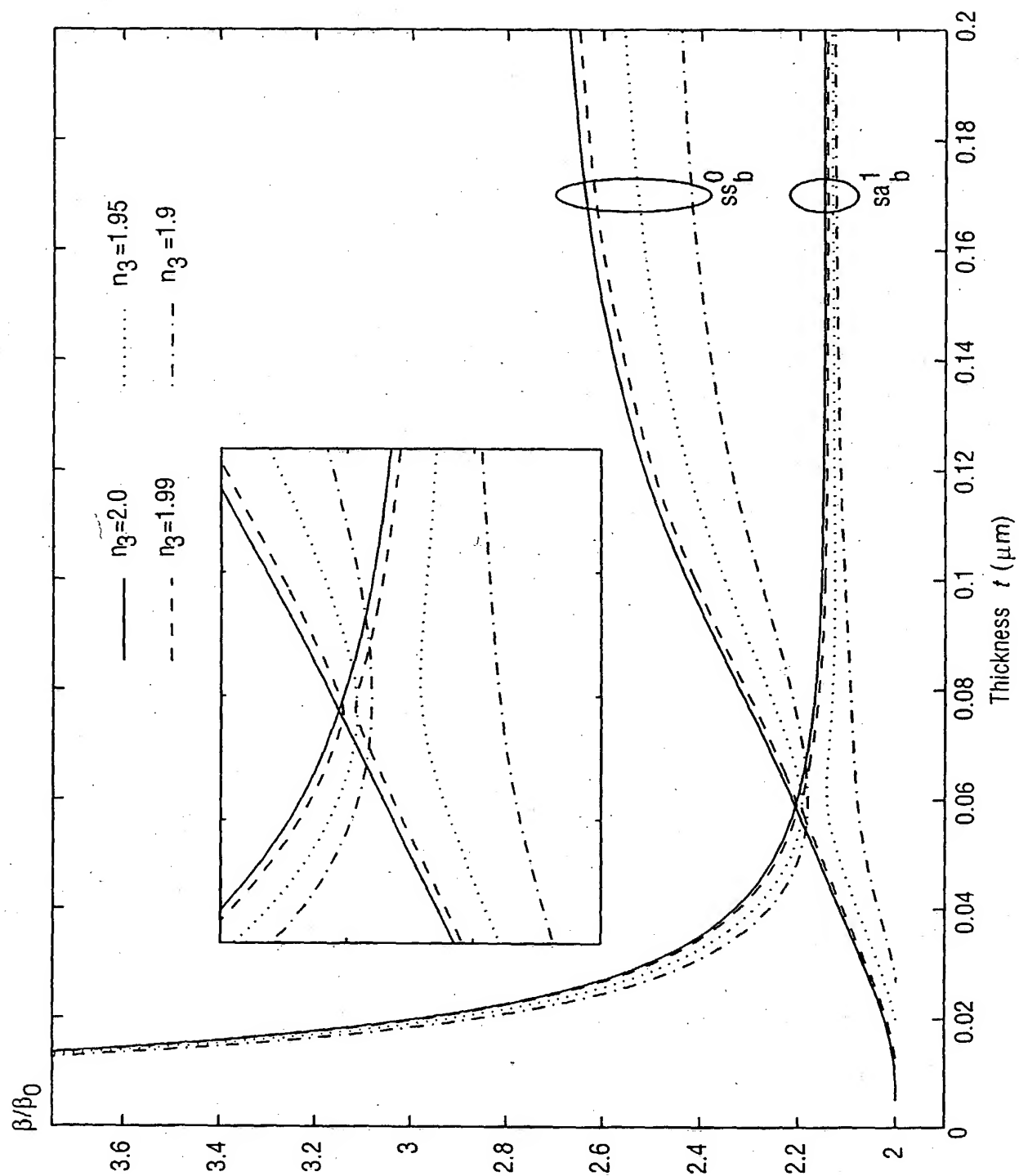
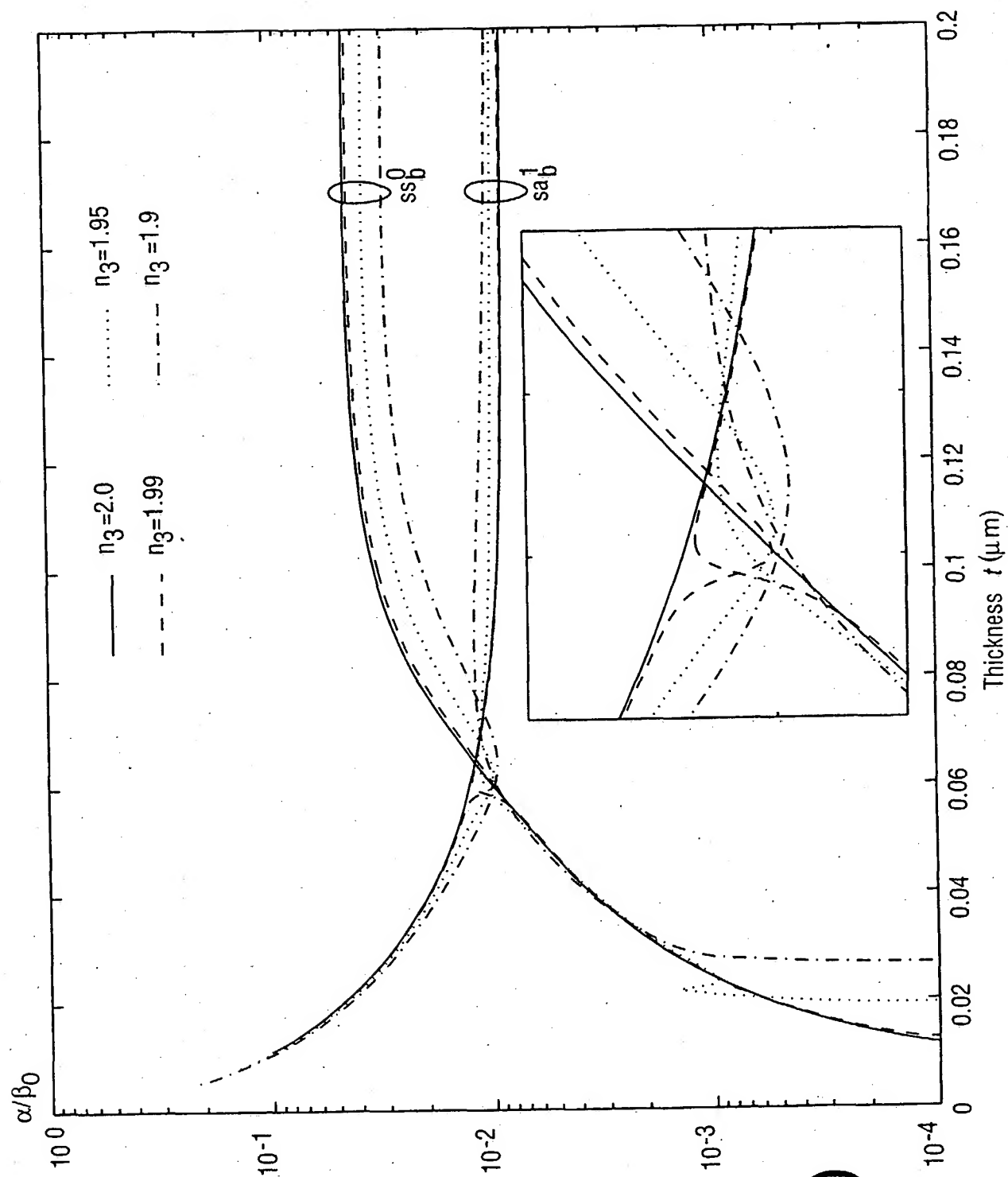
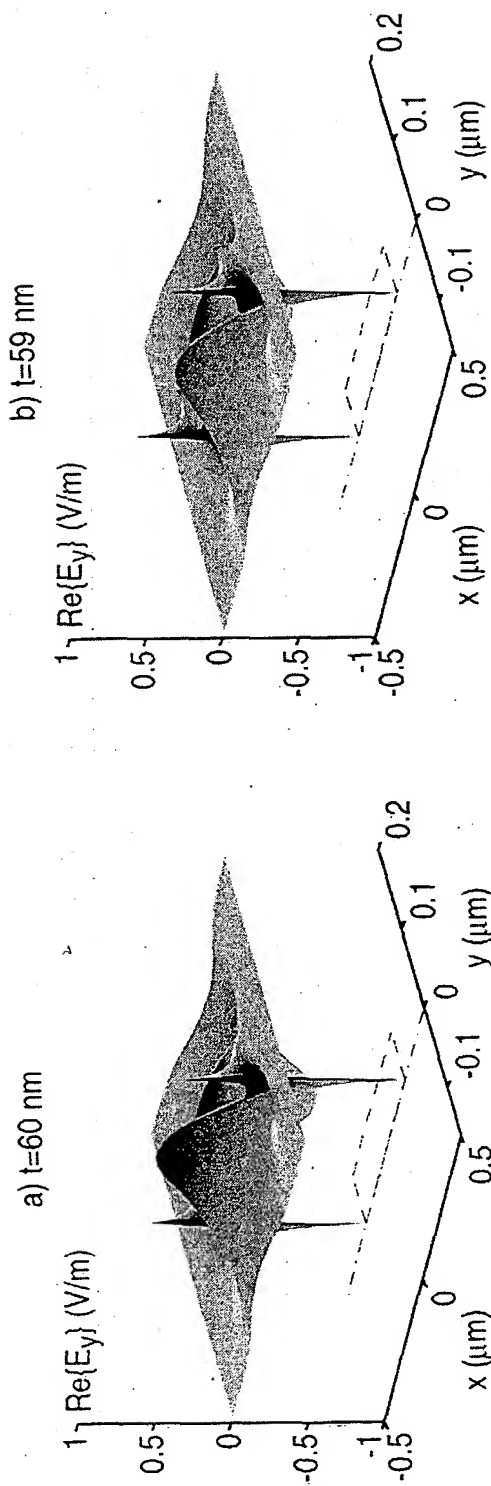


FIG. 24(a)

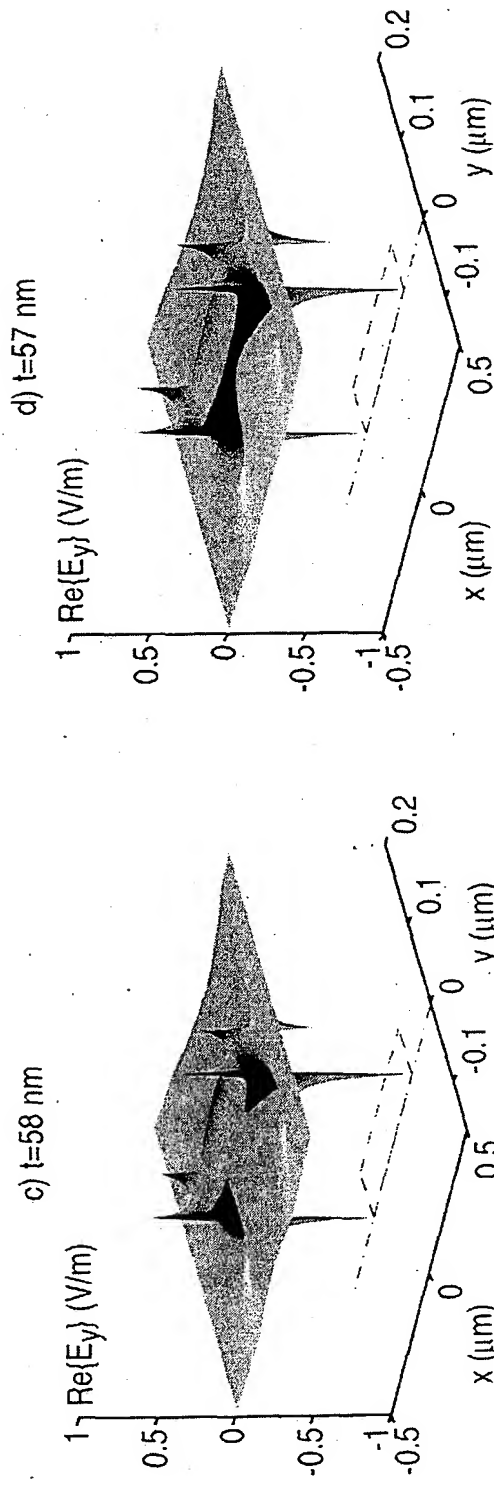


**FIG. 24(b)**

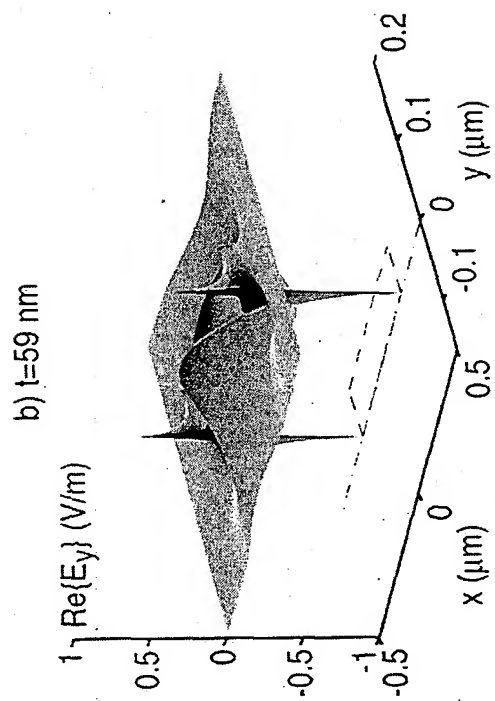




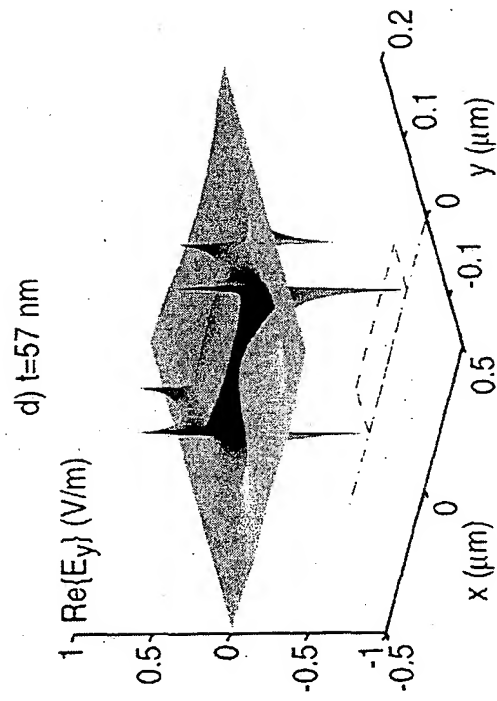
**FIG. 25(a)**



**FIG. 25(c)**



**FIG. 25(b)**



**FIG. 25(d)**

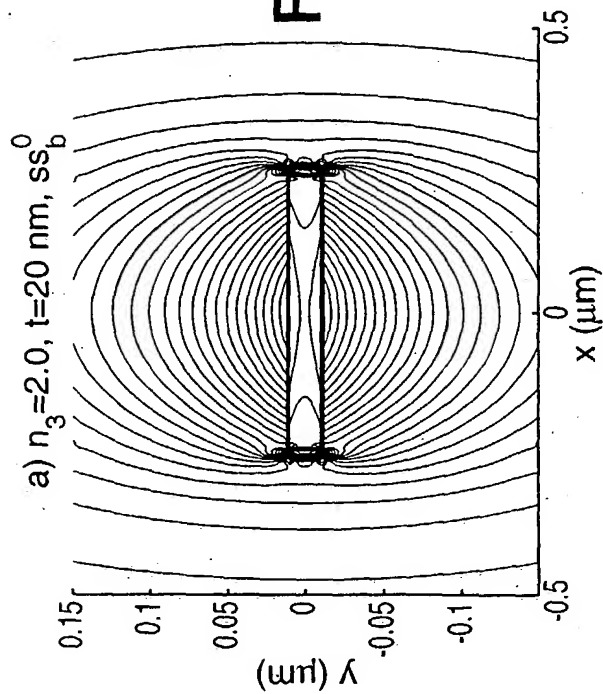


FIG. 26(a)

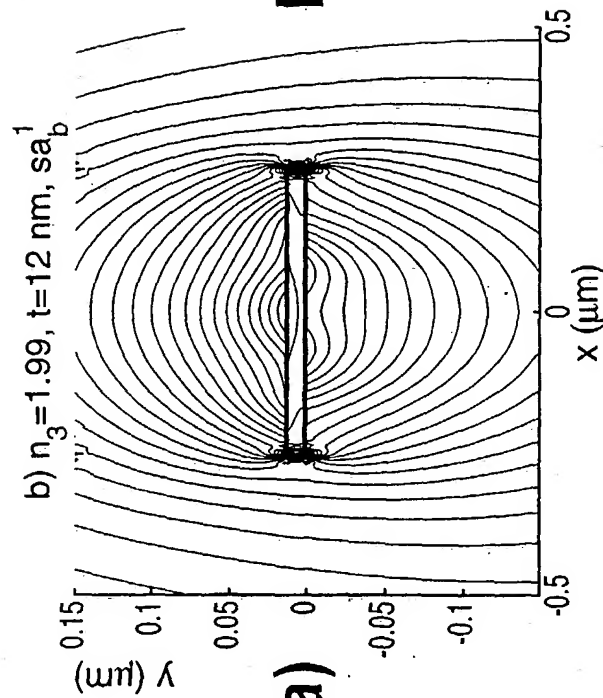


FIG. 26(b)

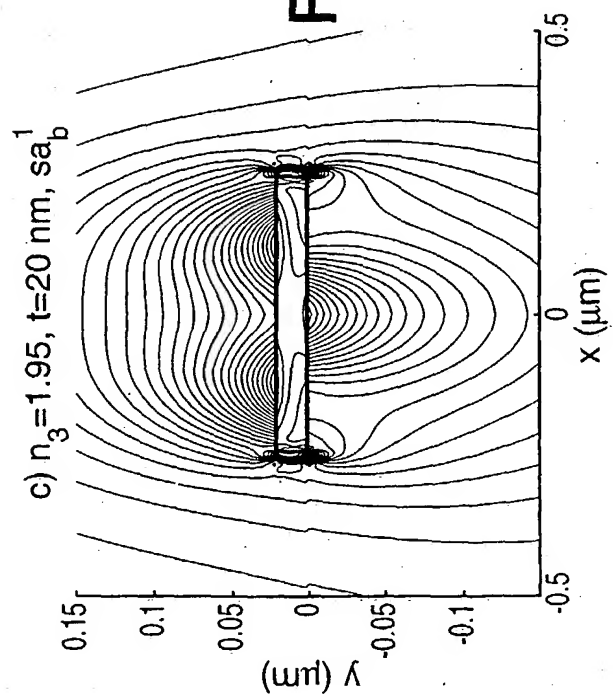


FIG. 26(c)

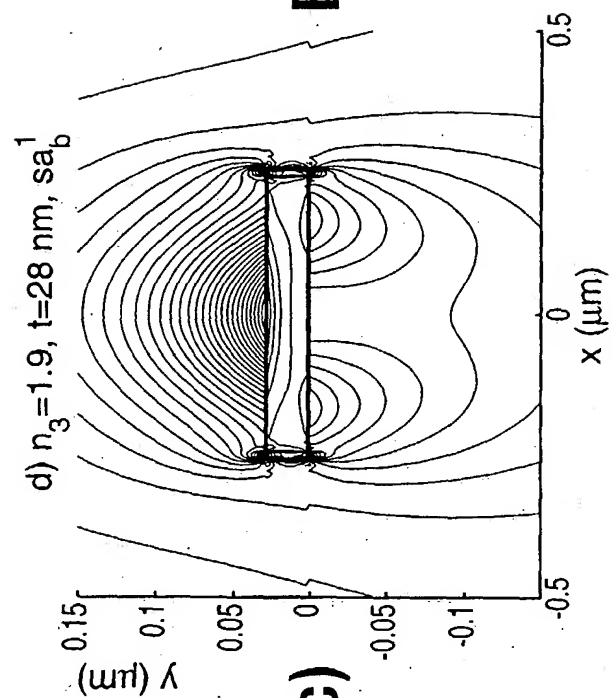
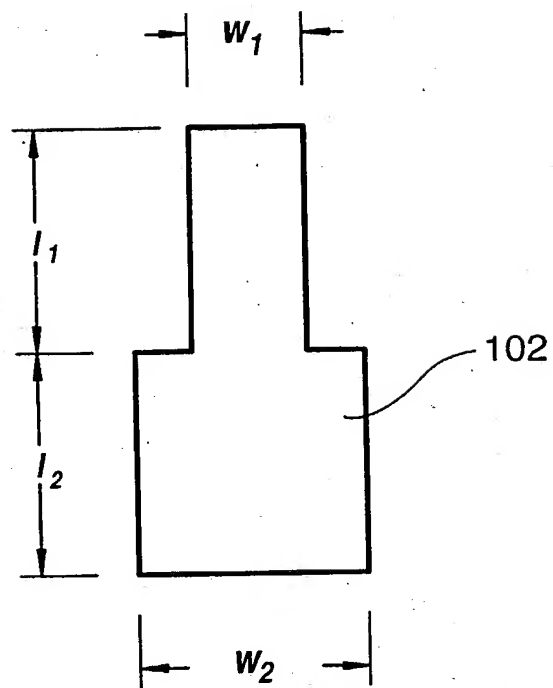
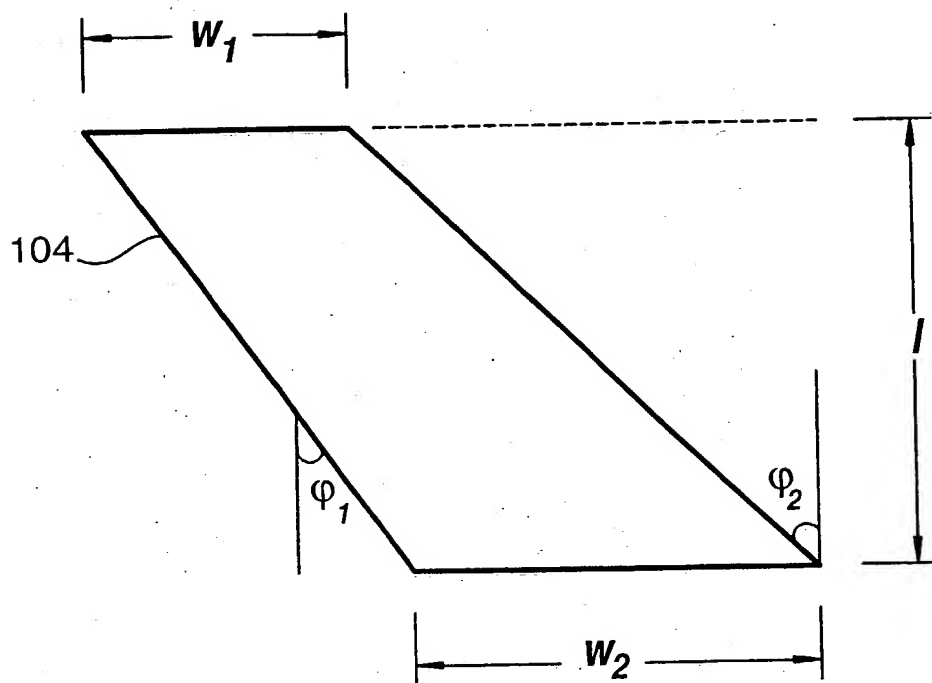


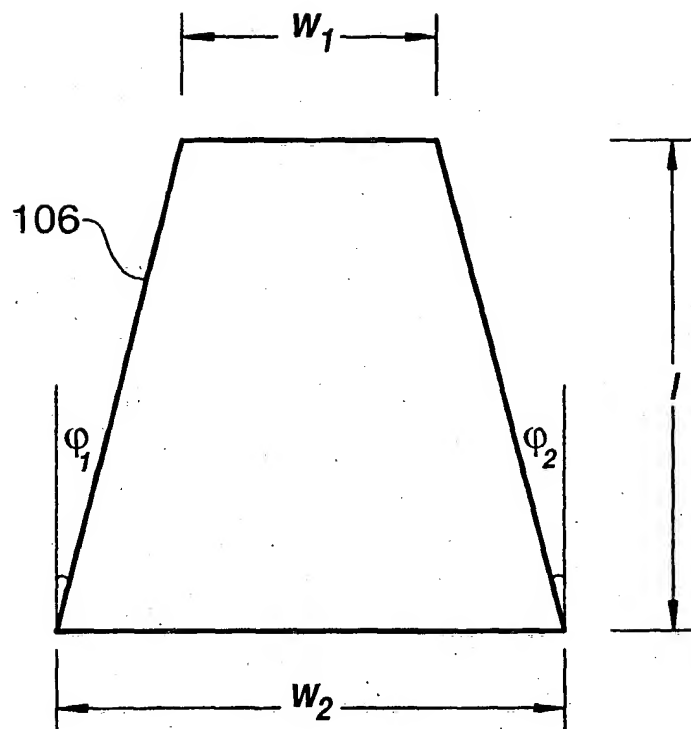
FIG. 26(d)



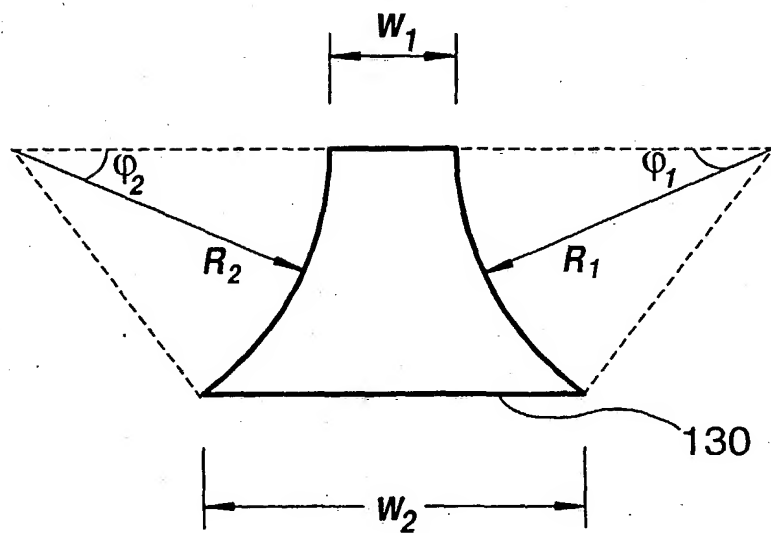
**FIG. 27**



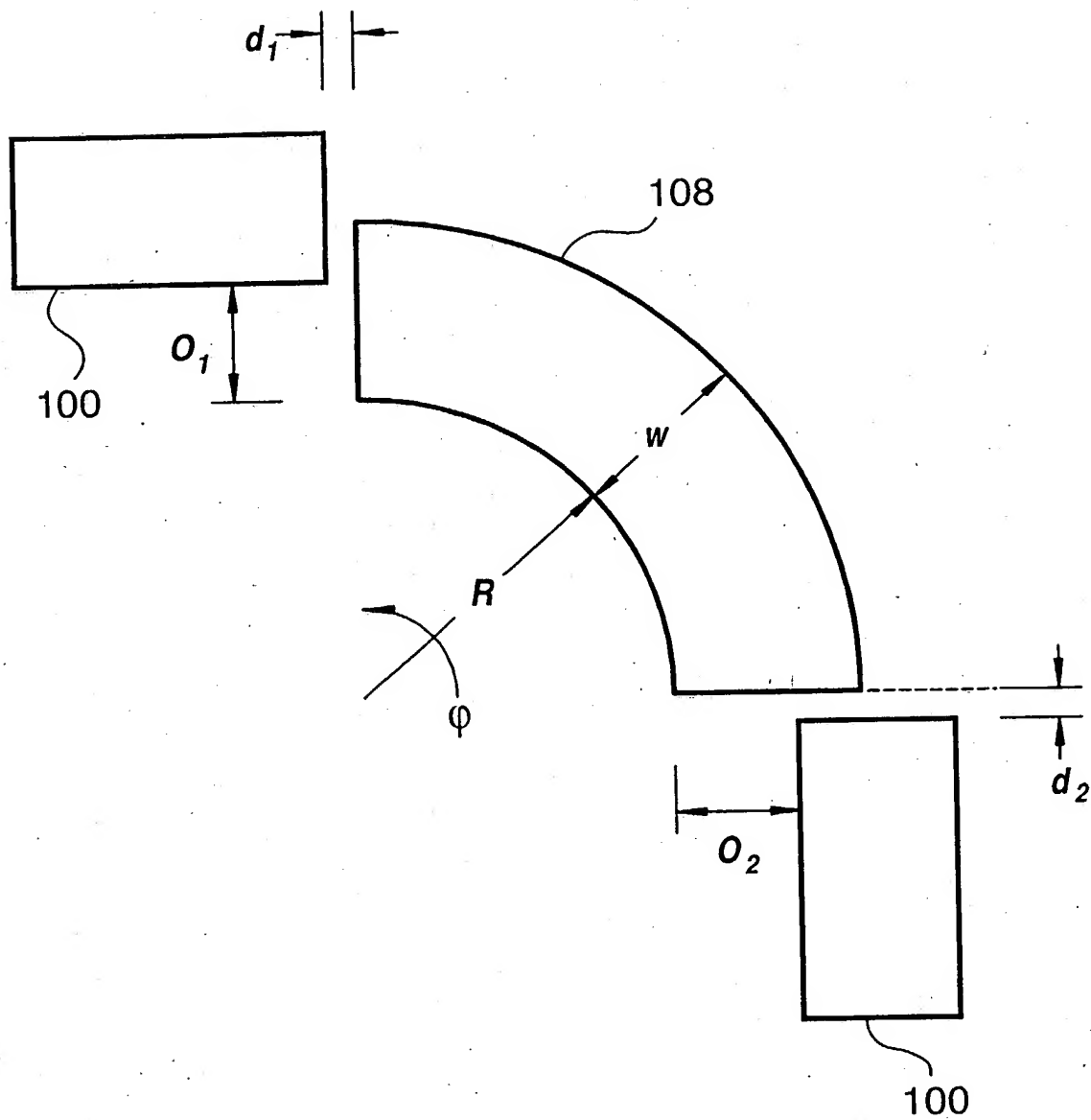
**FIG. 28**



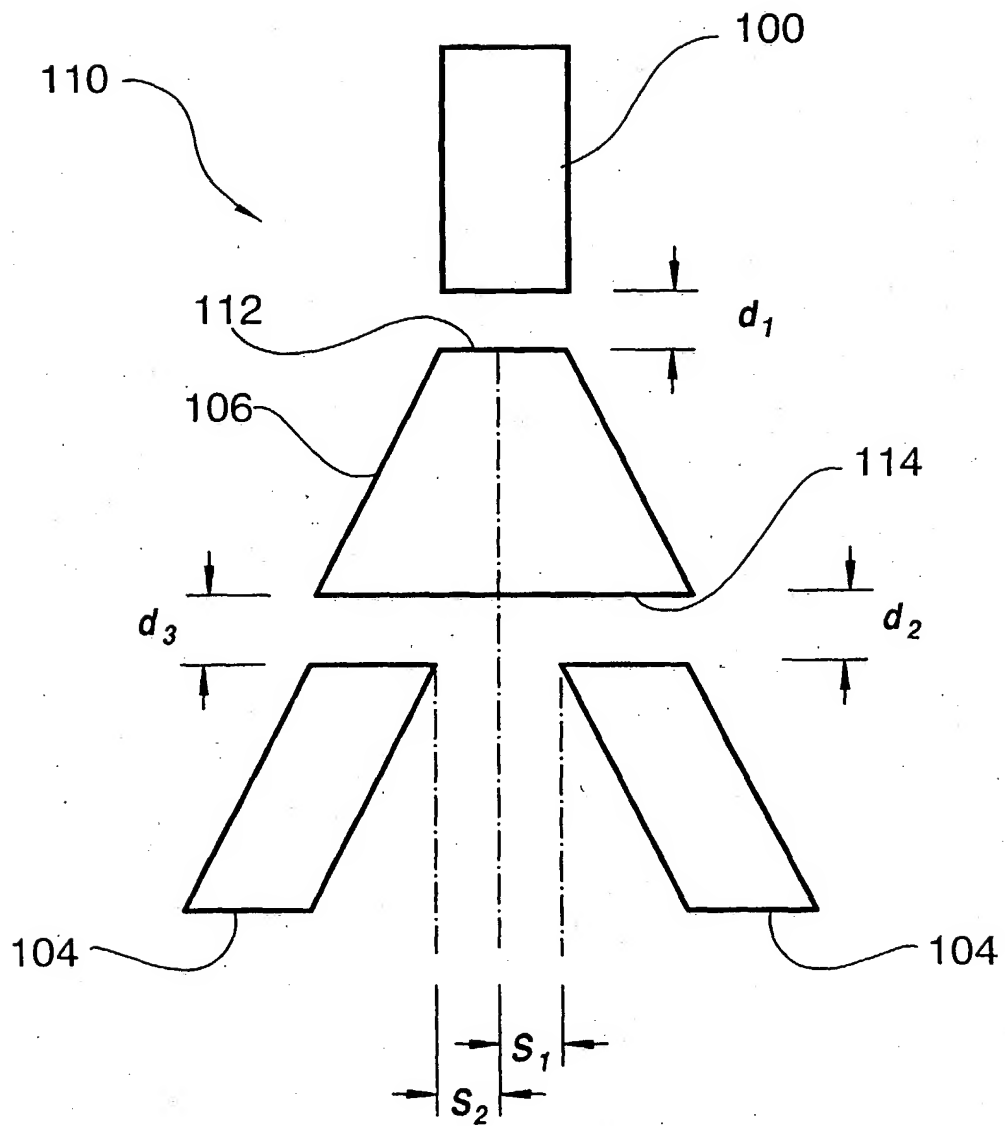
**FIG. 29**



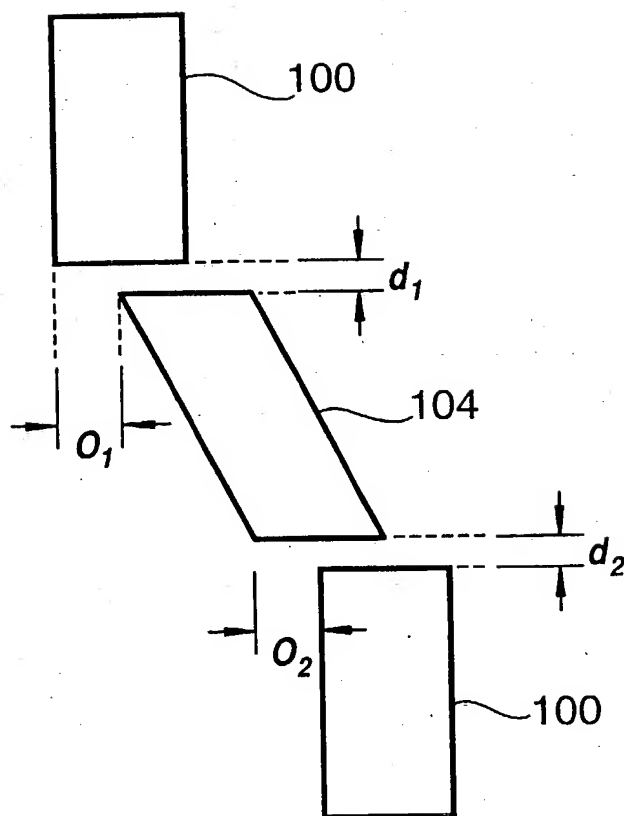
**FIG. 30**



**FIG. 31**



**FIG. 32**



**FIG. 33 (a)**

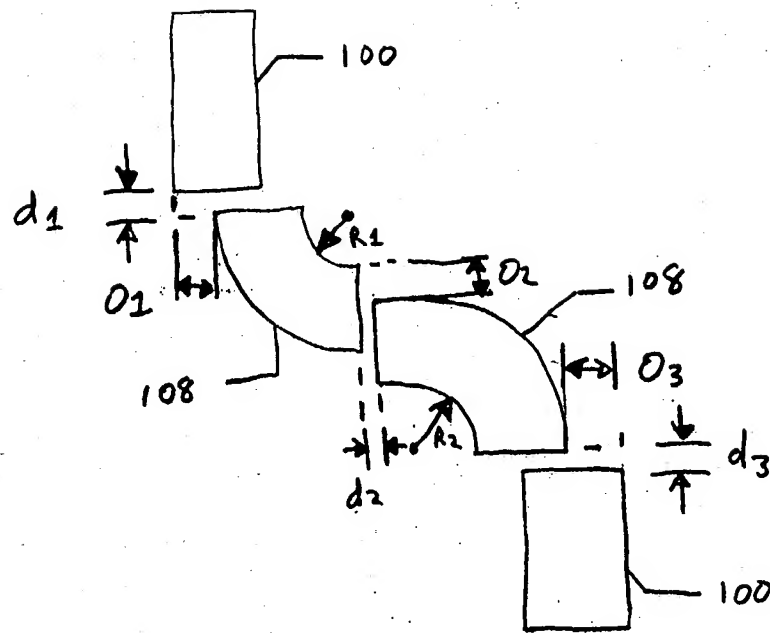


Fig 33(b)

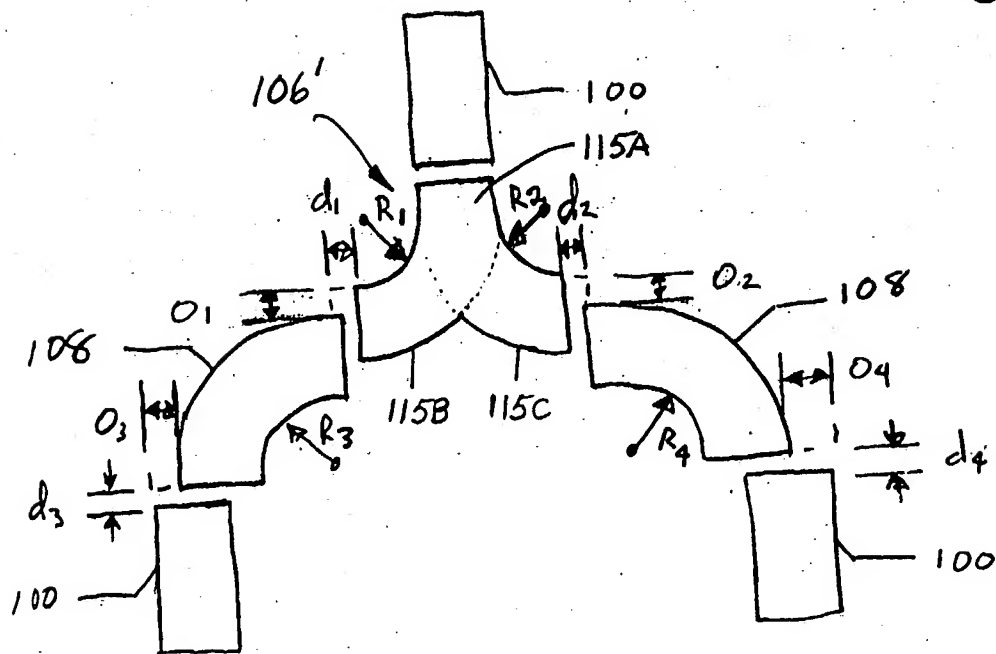
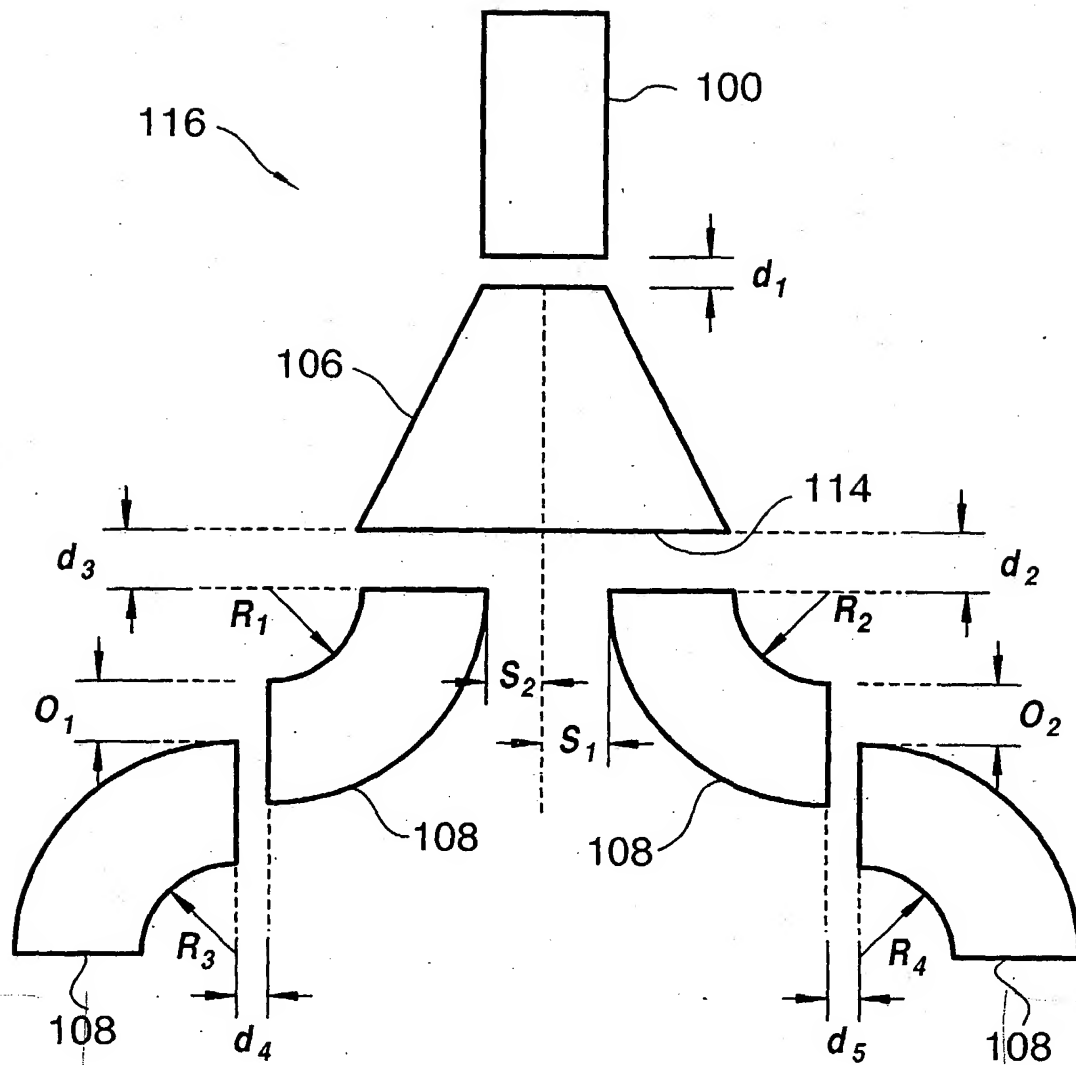
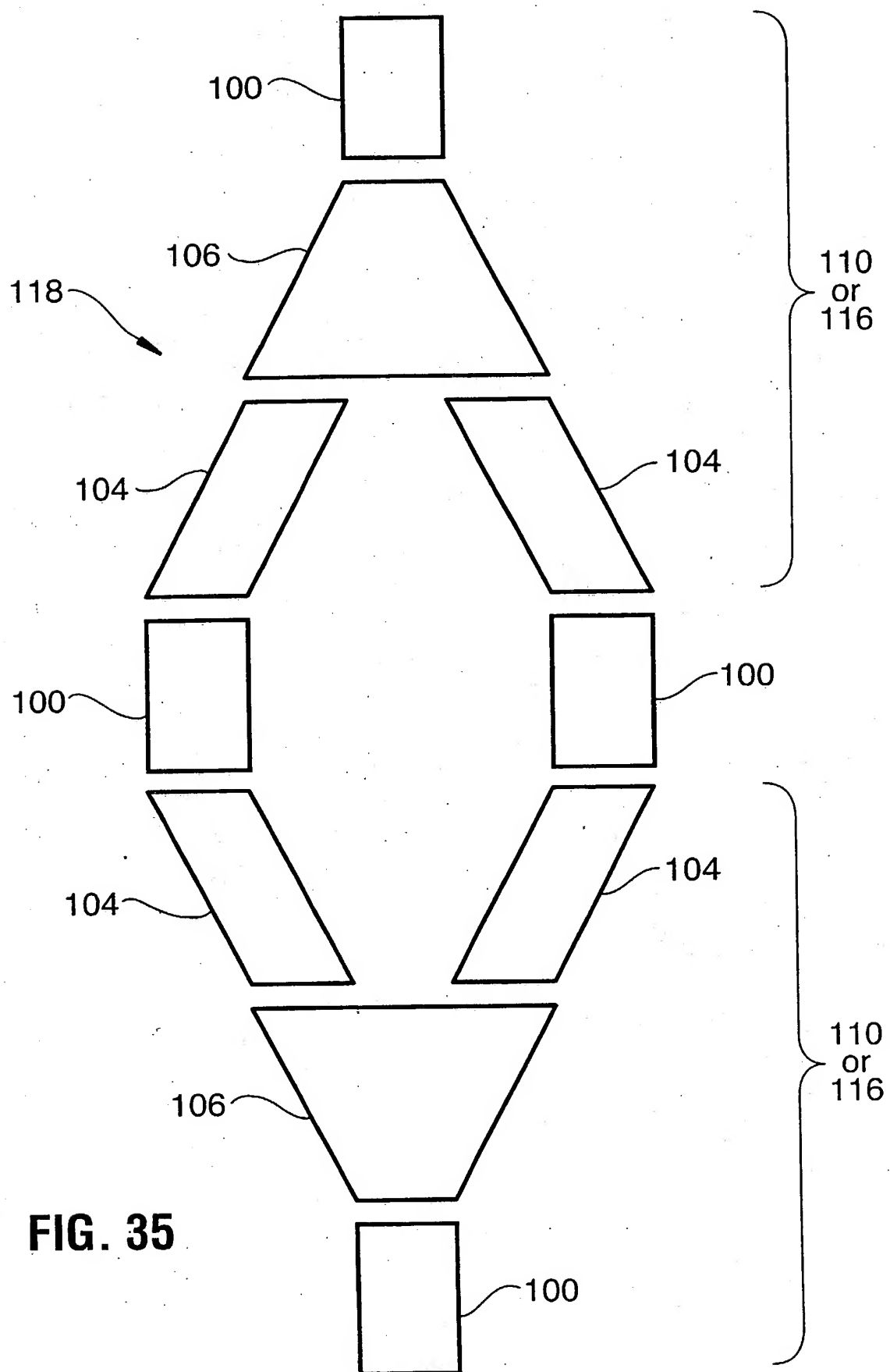


Fig. 34(b)

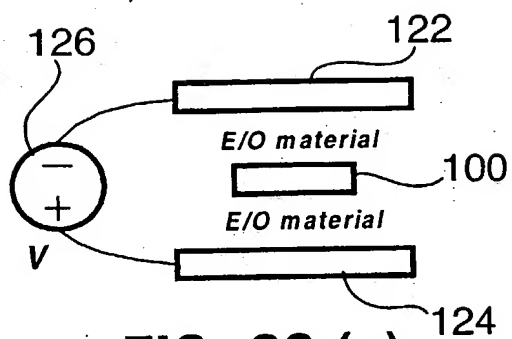




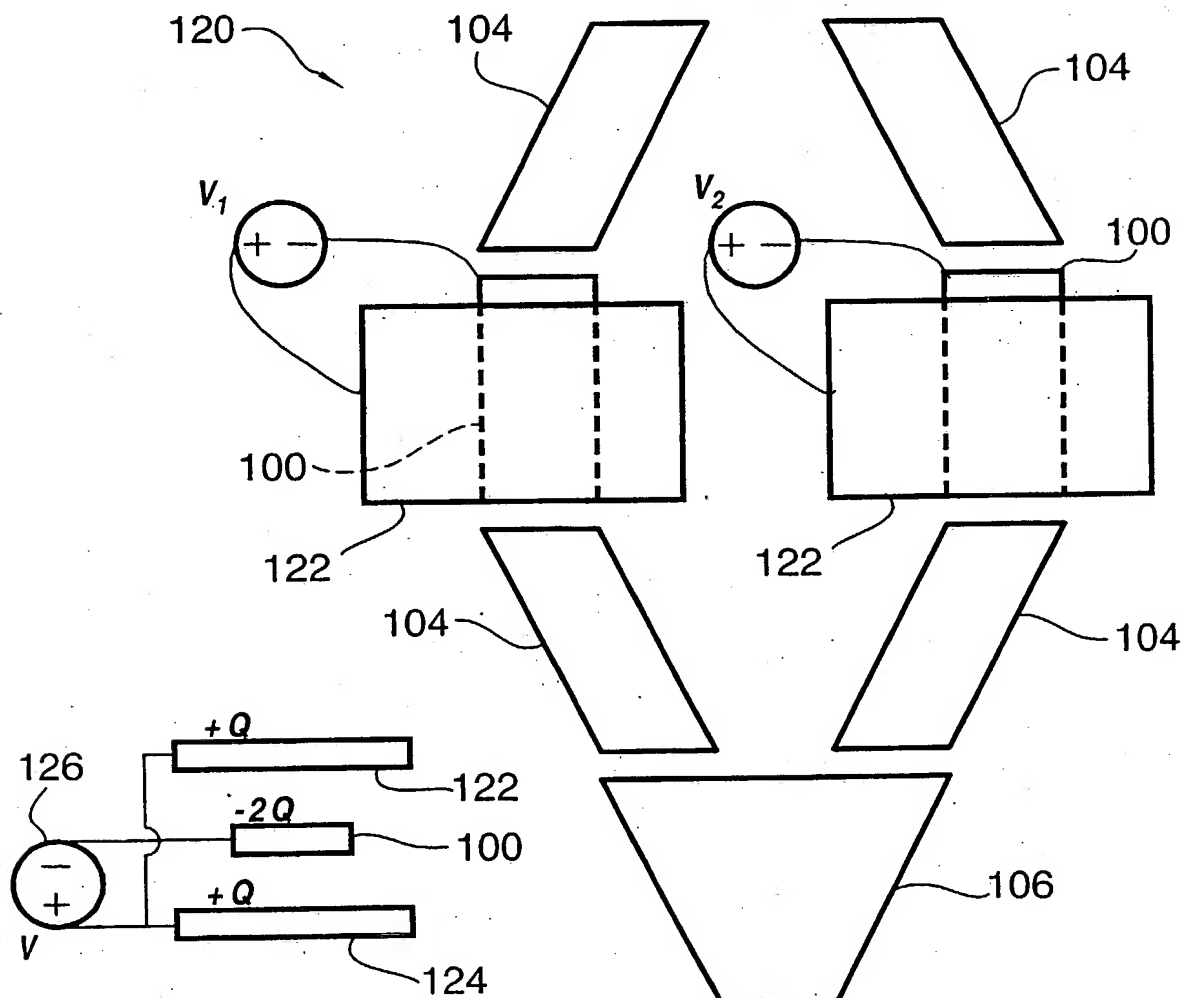
**FIG. 34(a)**



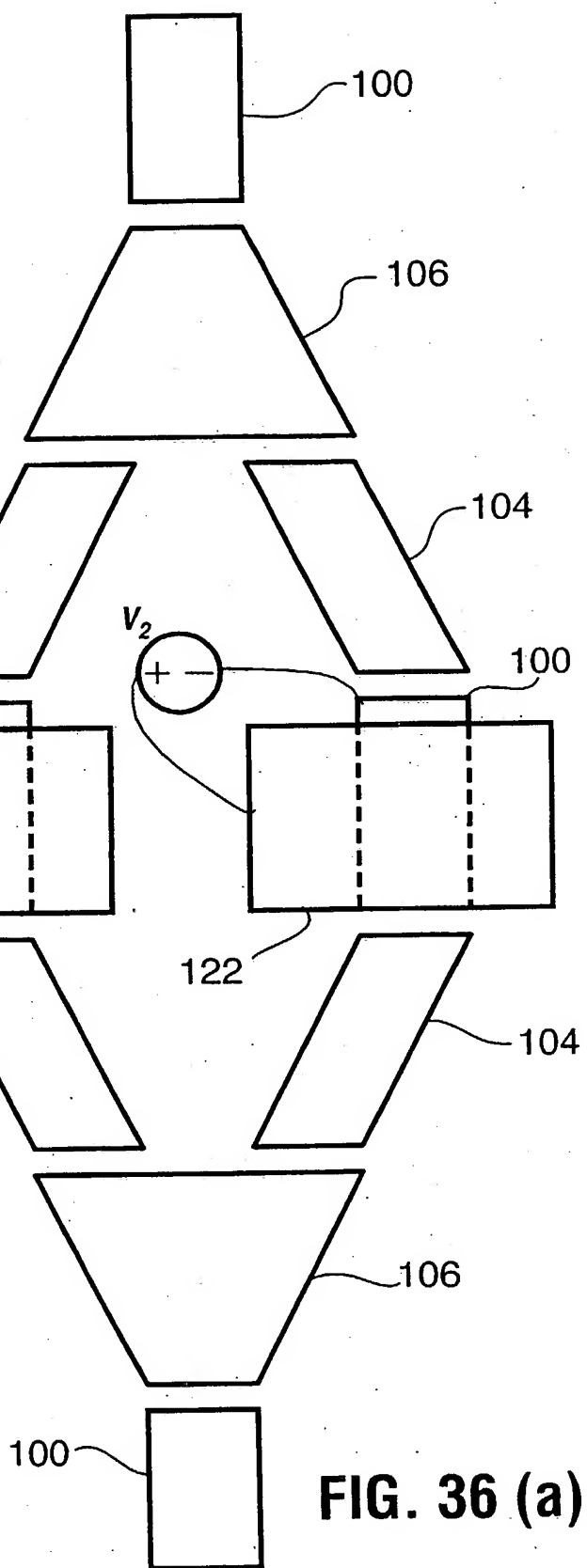
**FIG. 35**



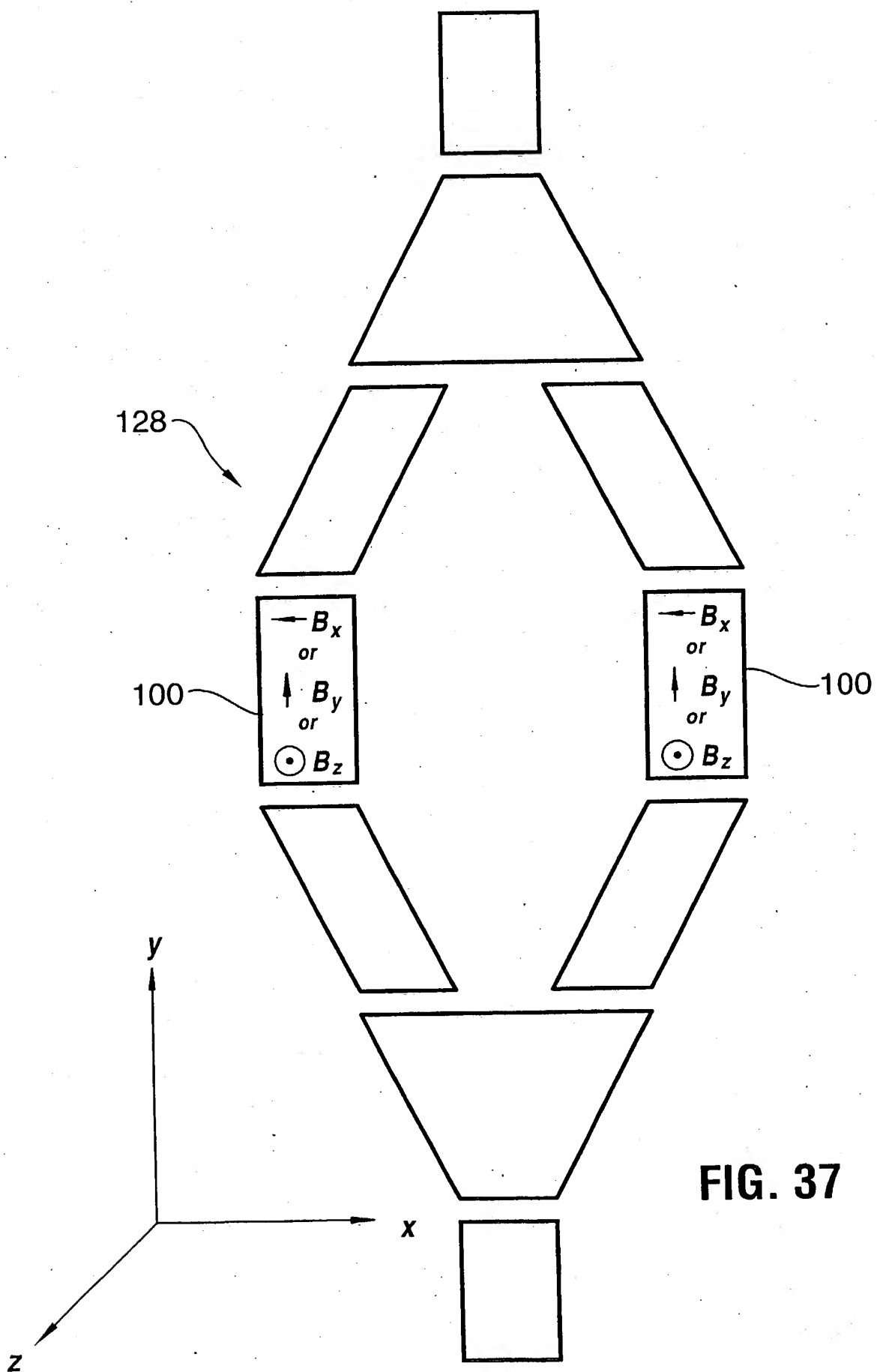
**FIG. 36 (c)**



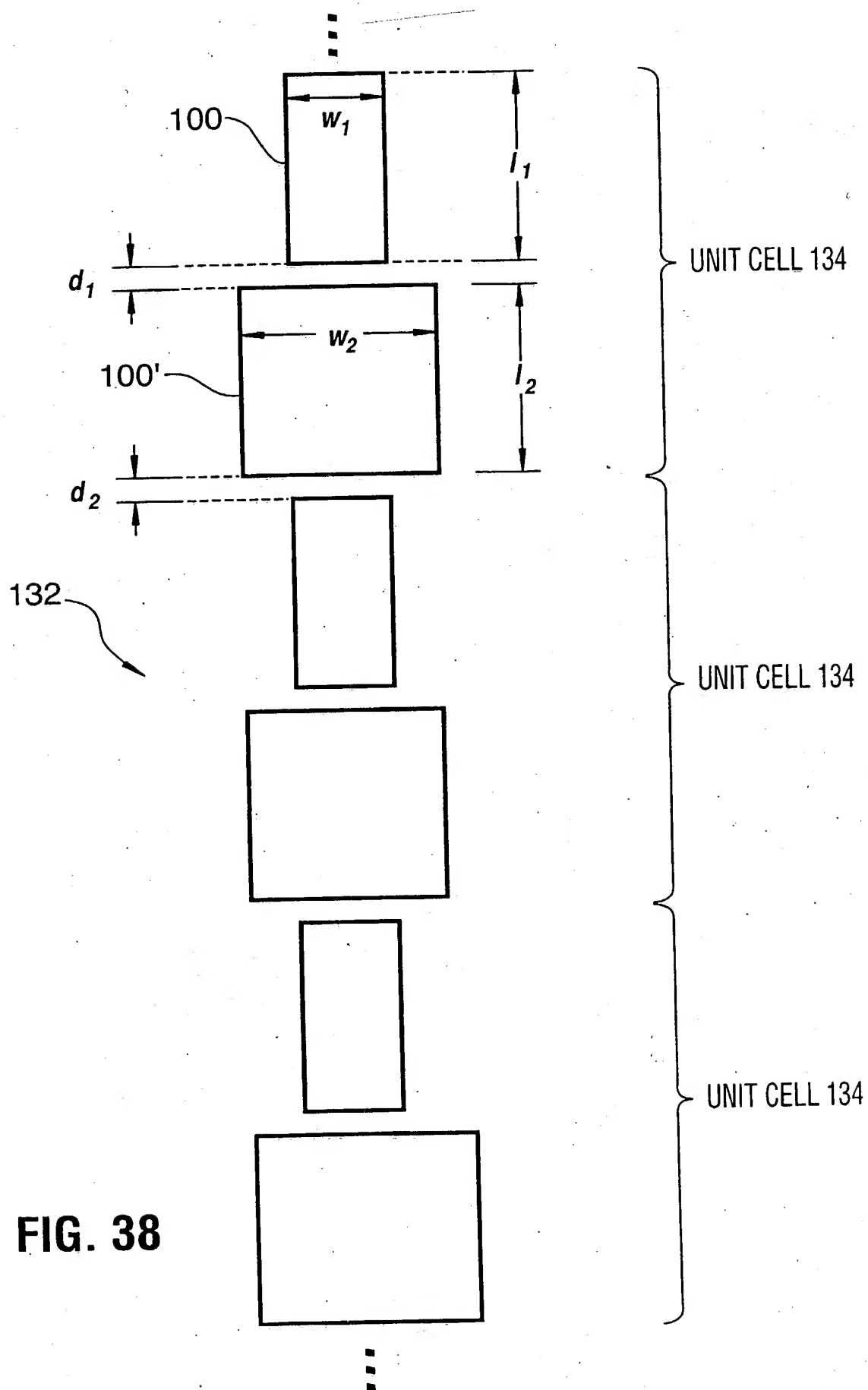
**FIG. 36 (b)**



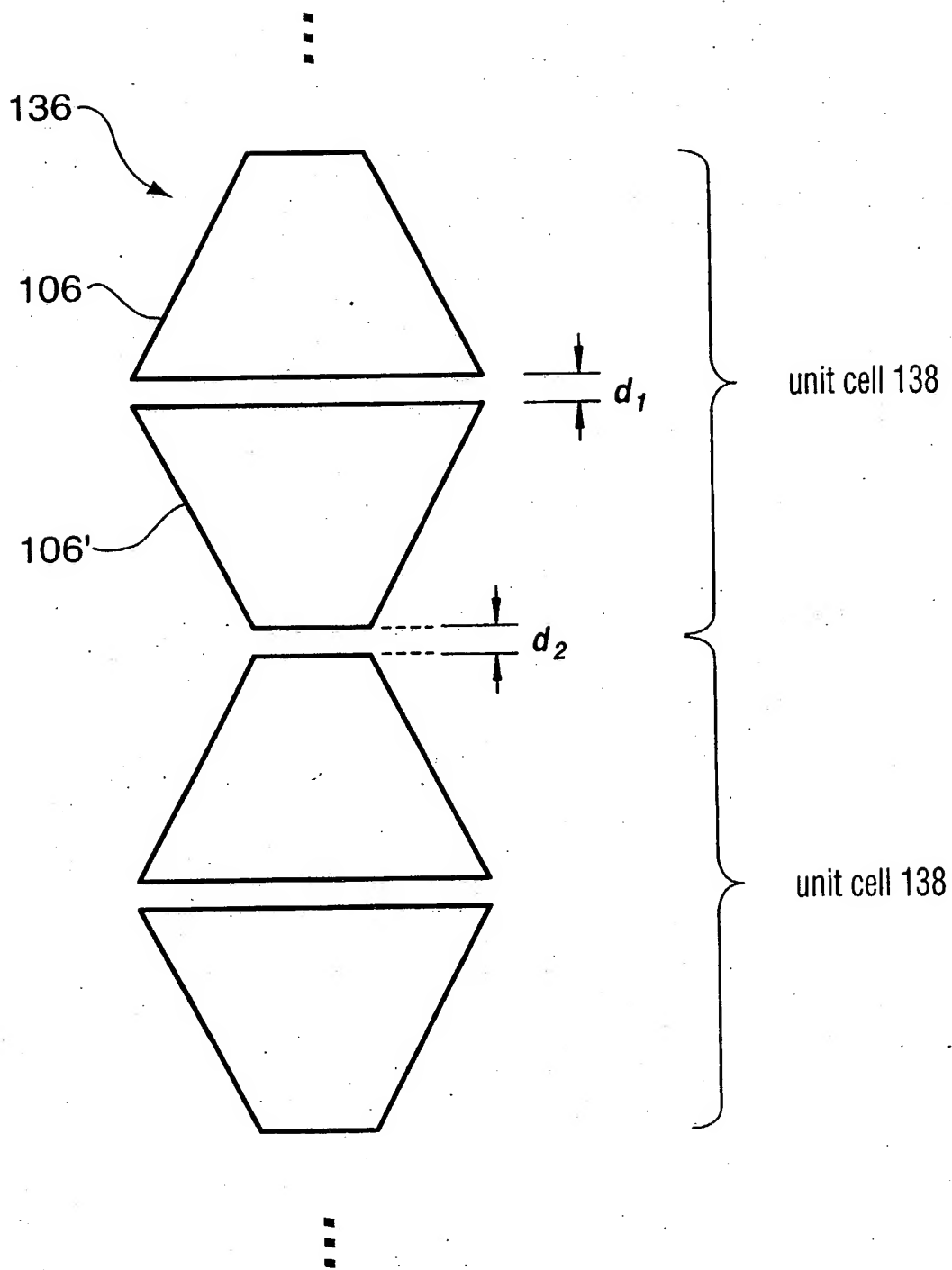
**FIG. 36 (a)**



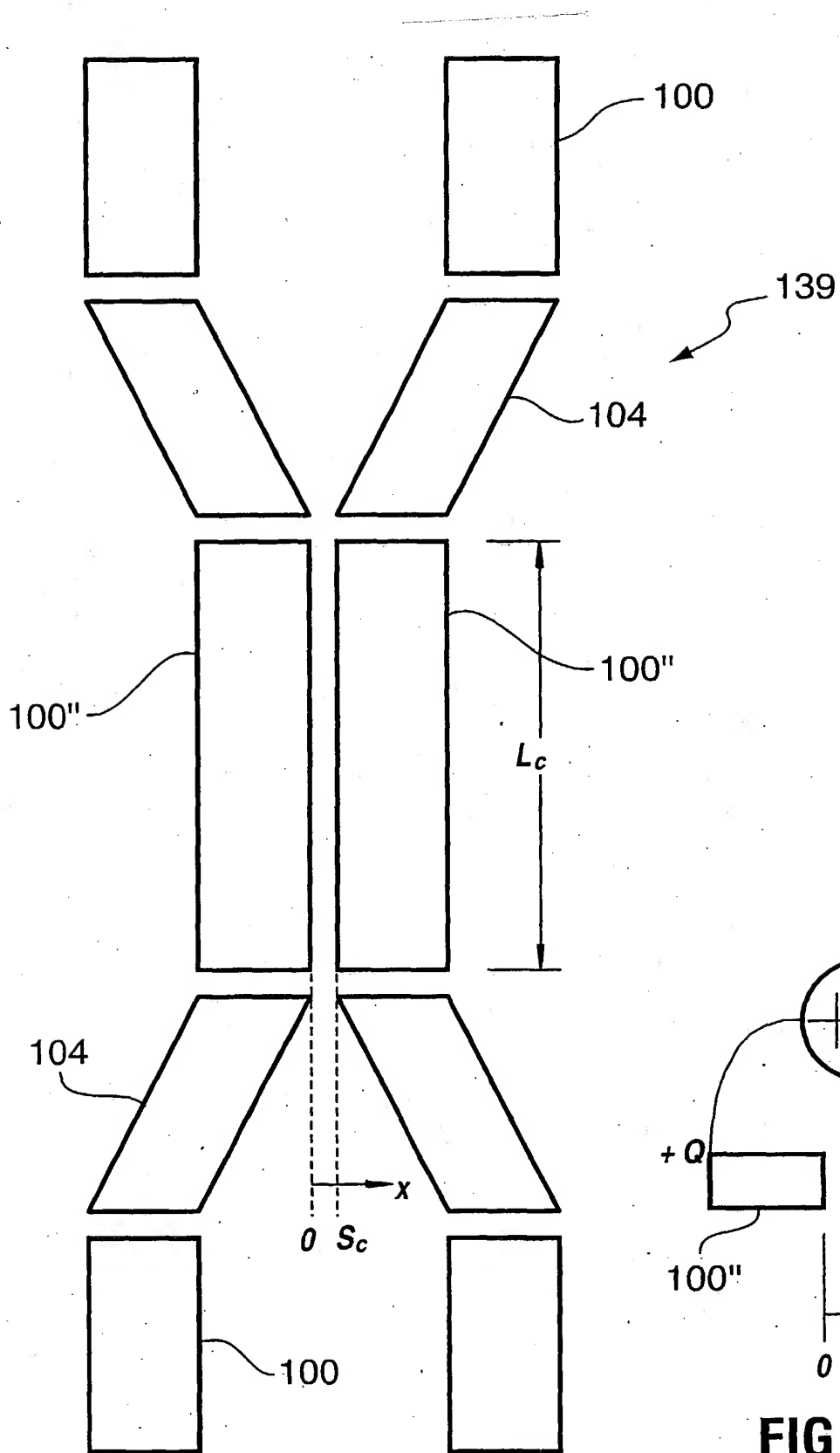
**FIG. 37**



**FIG. 38**



**FIG. 39**



**FIG. 40 (a)**

**FIG. 40 (b)**

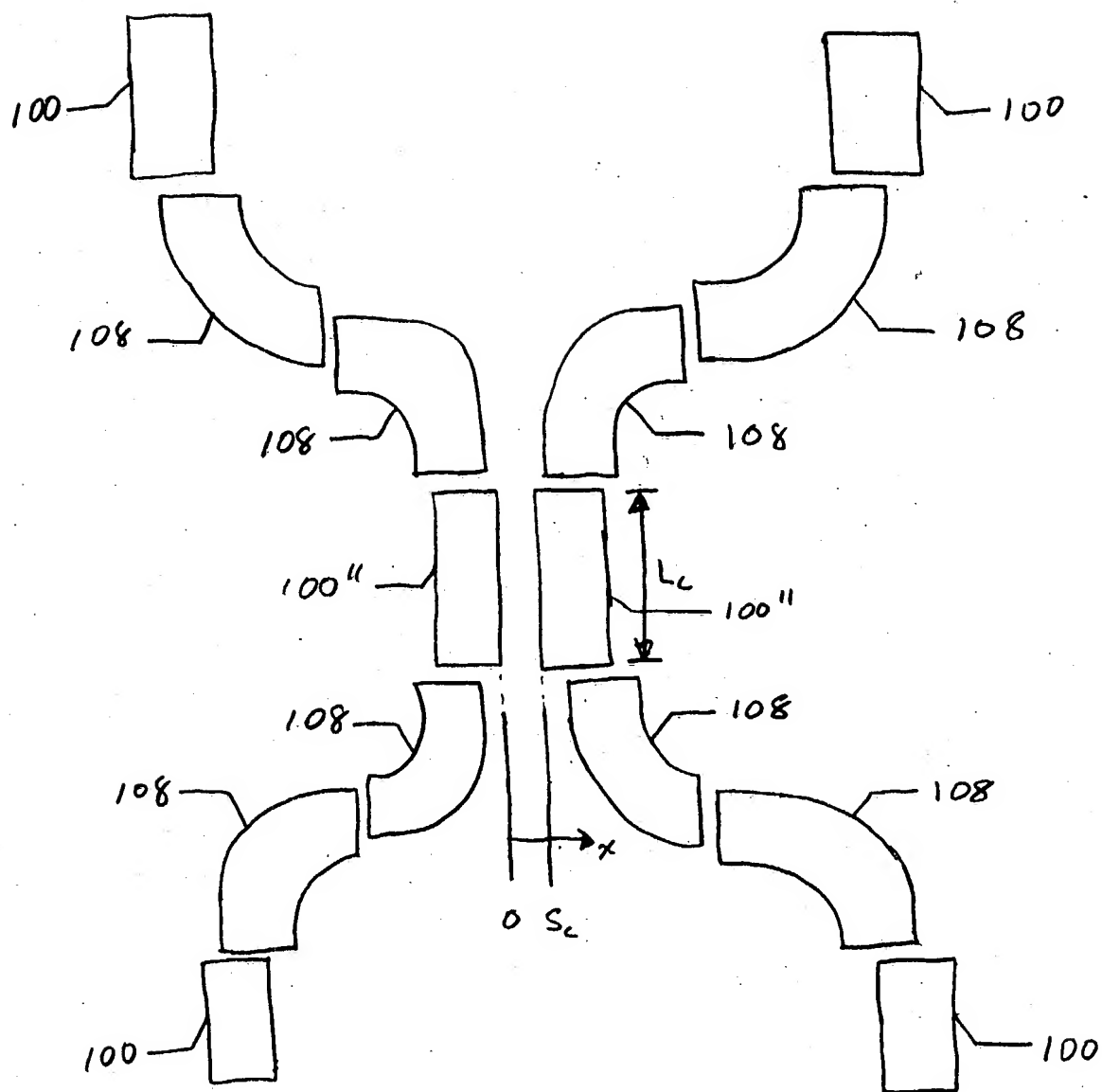


Fig. 40(c)



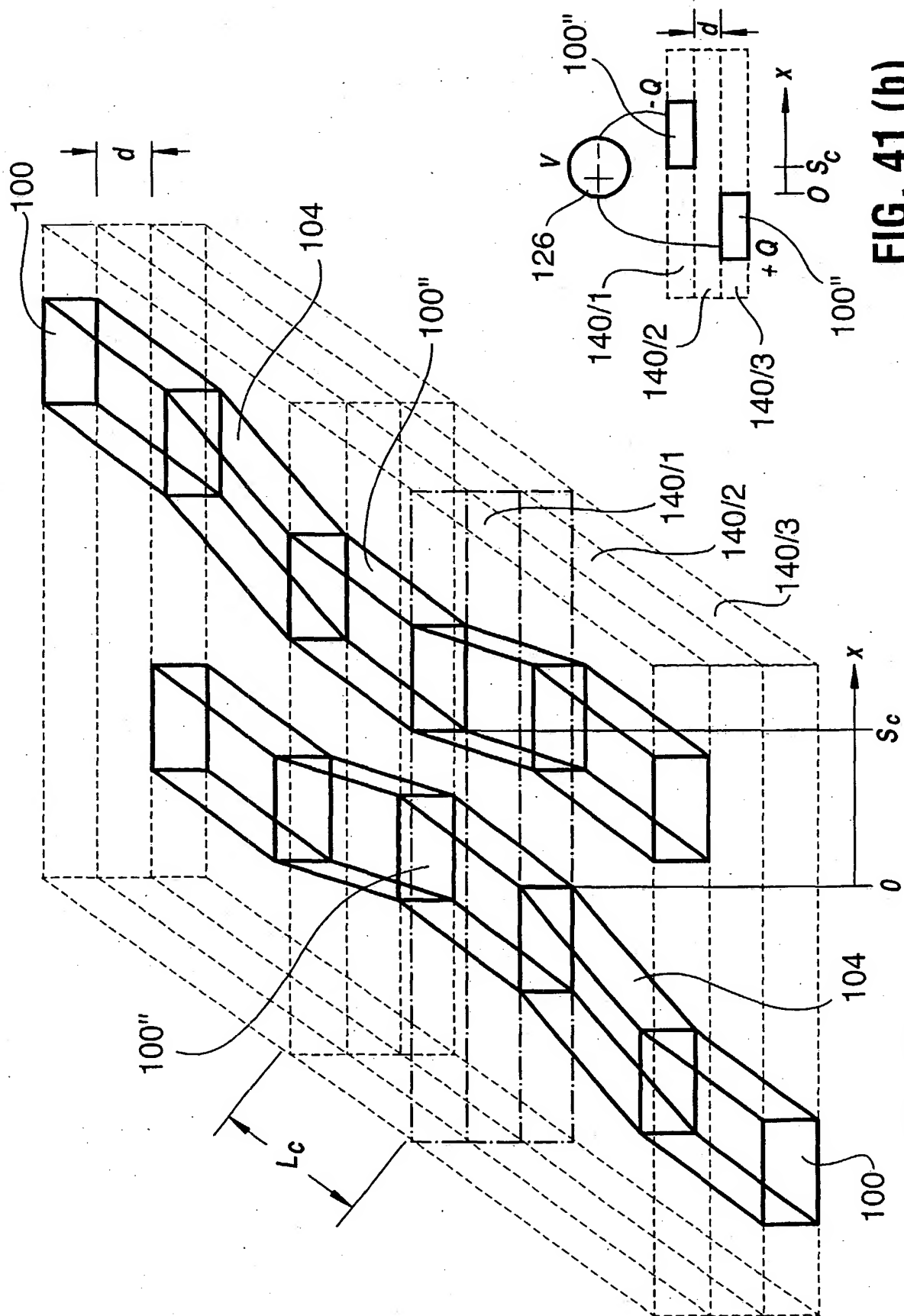
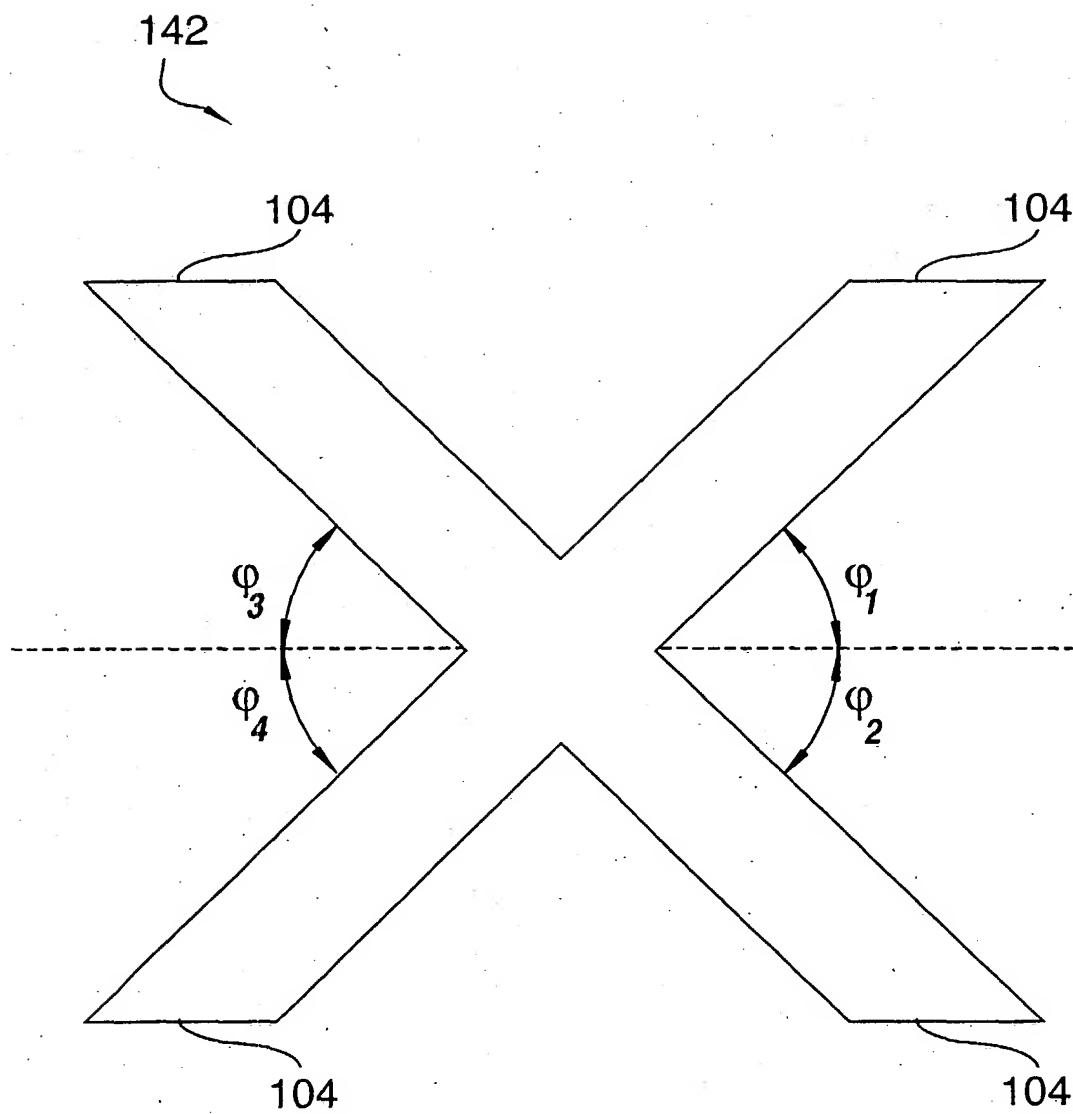
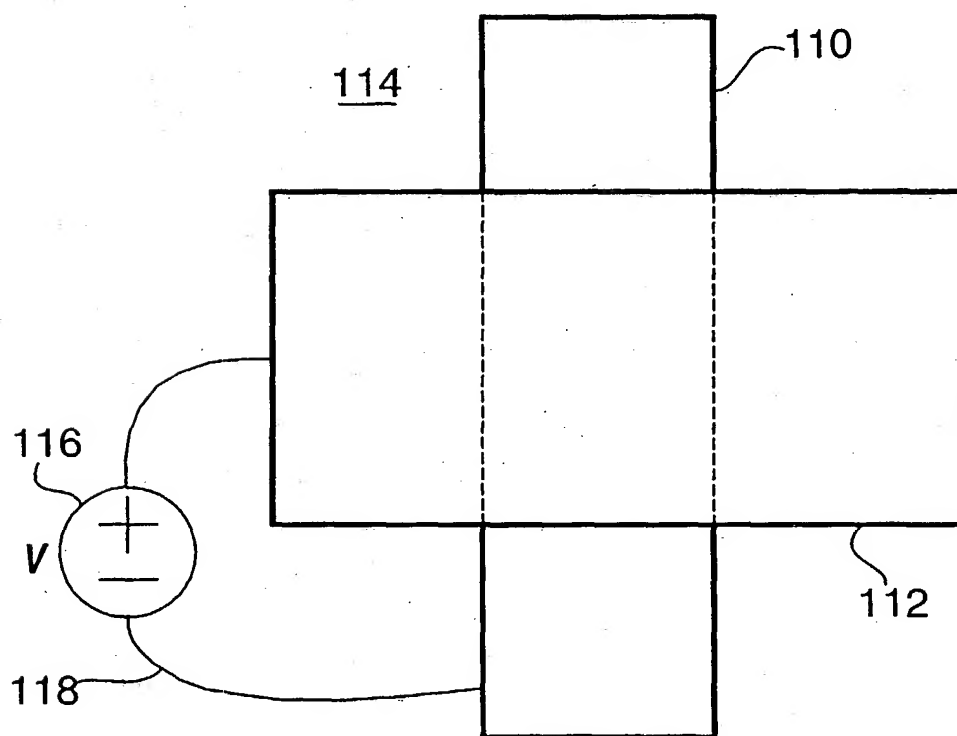
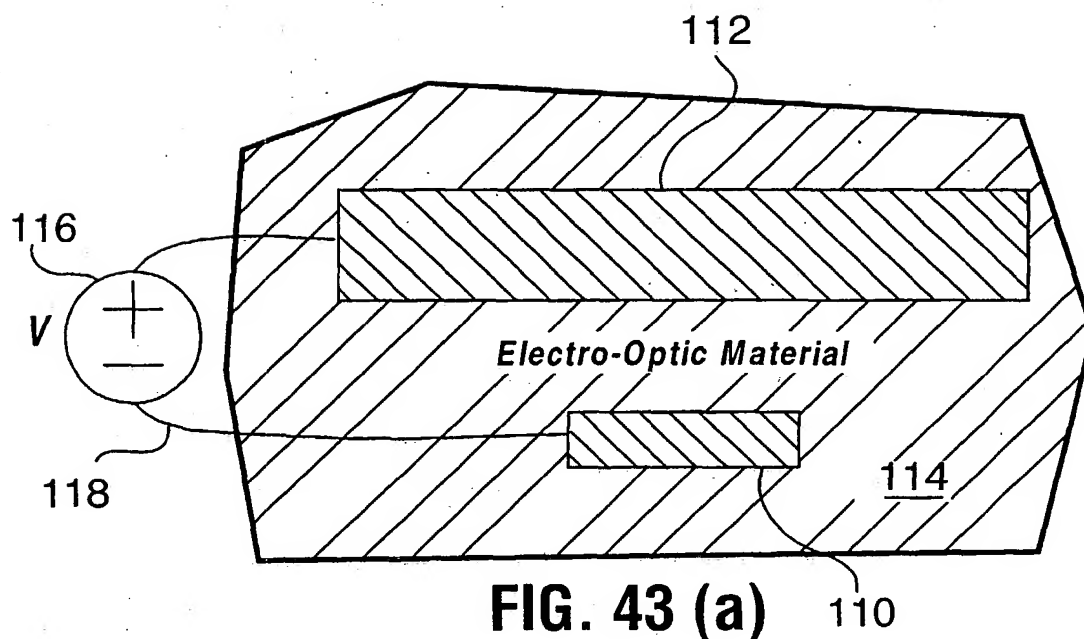


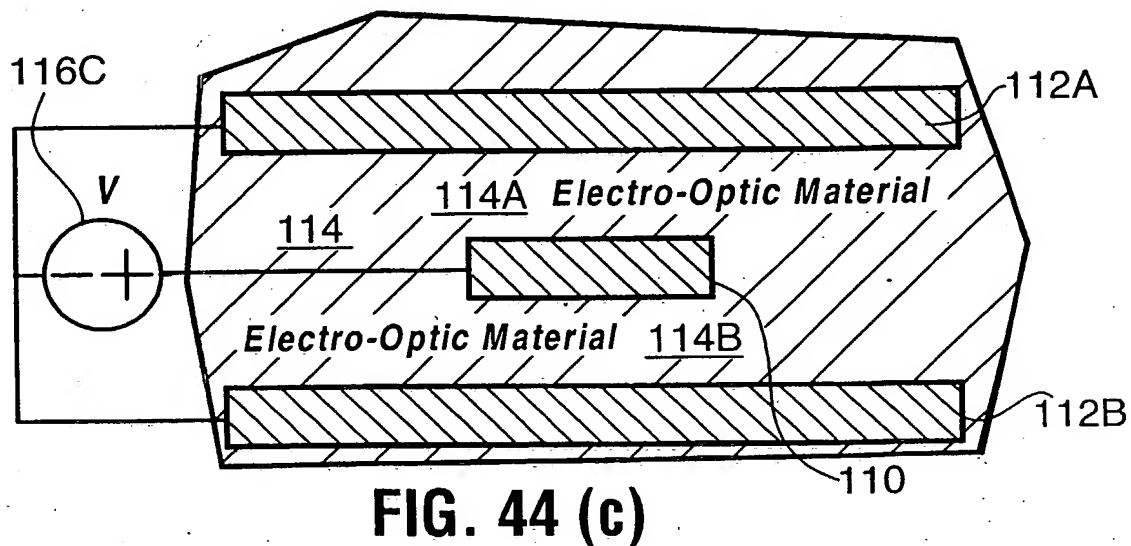
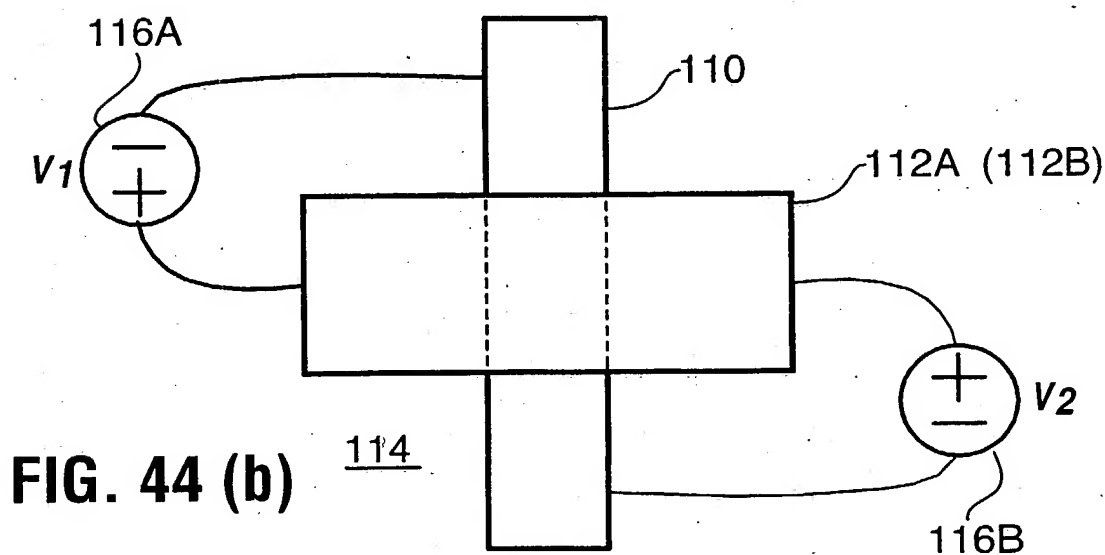
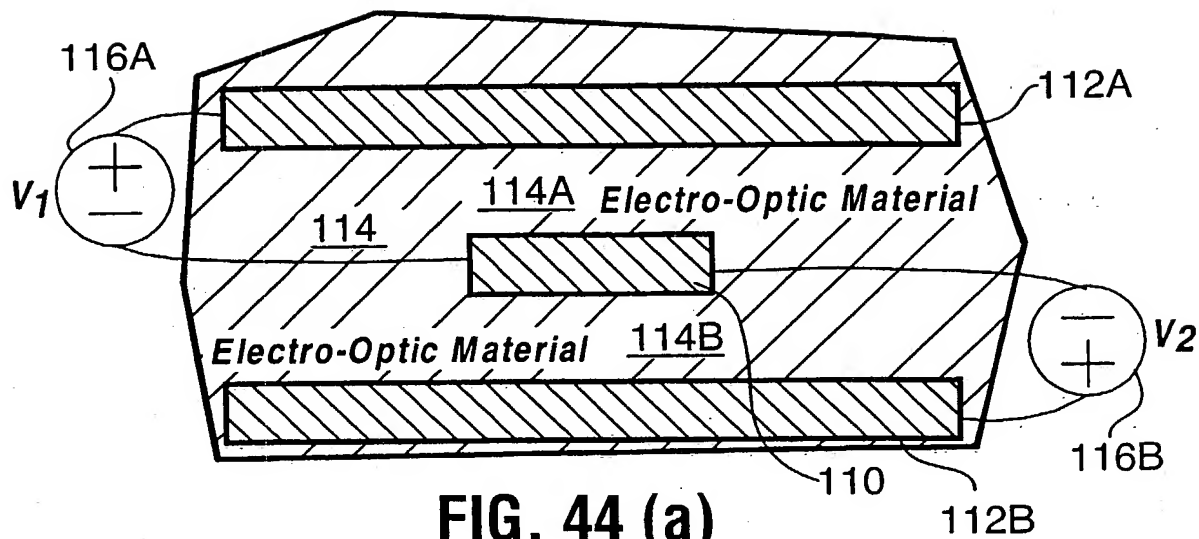
FIG. 41 (a)

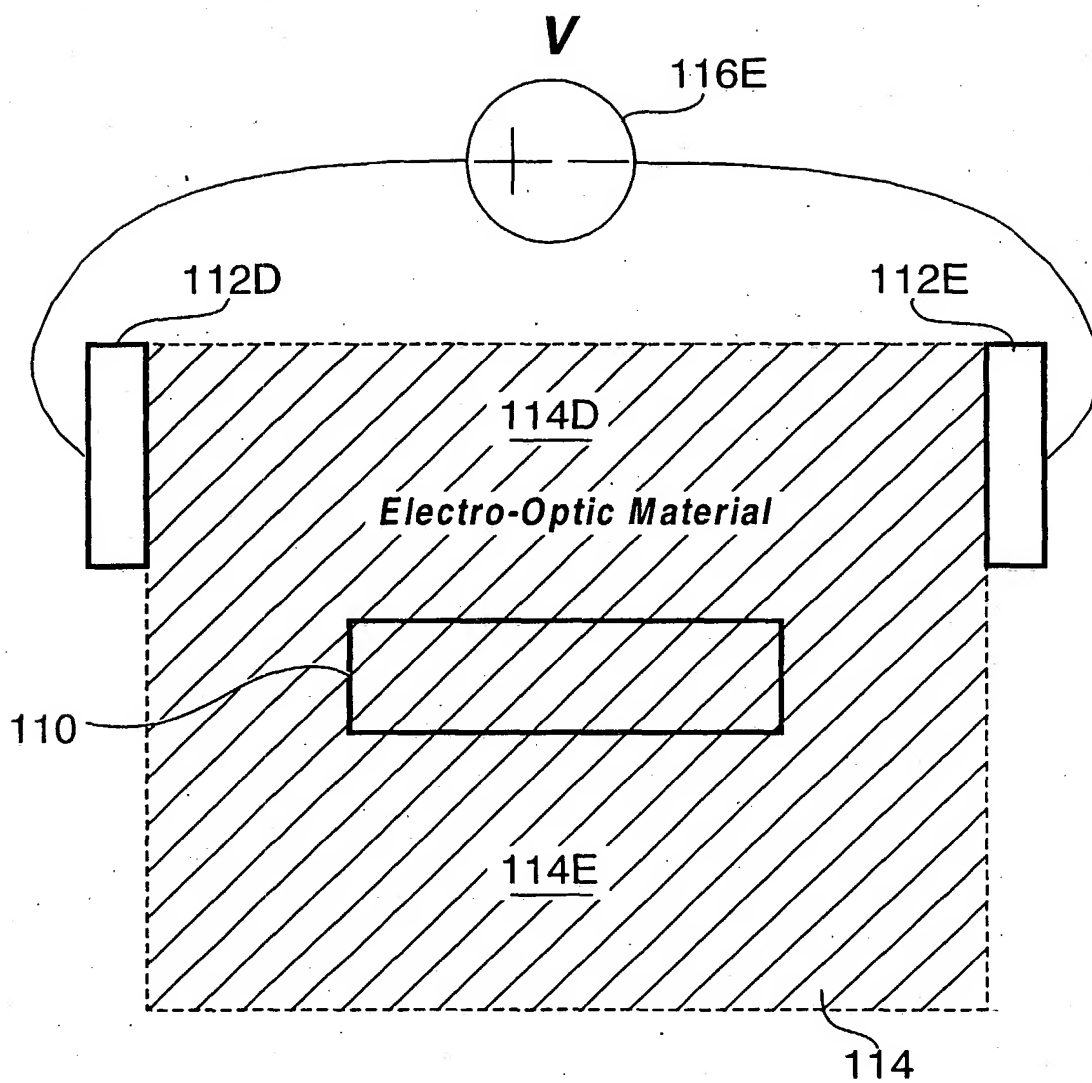
FIG. 41 (b)



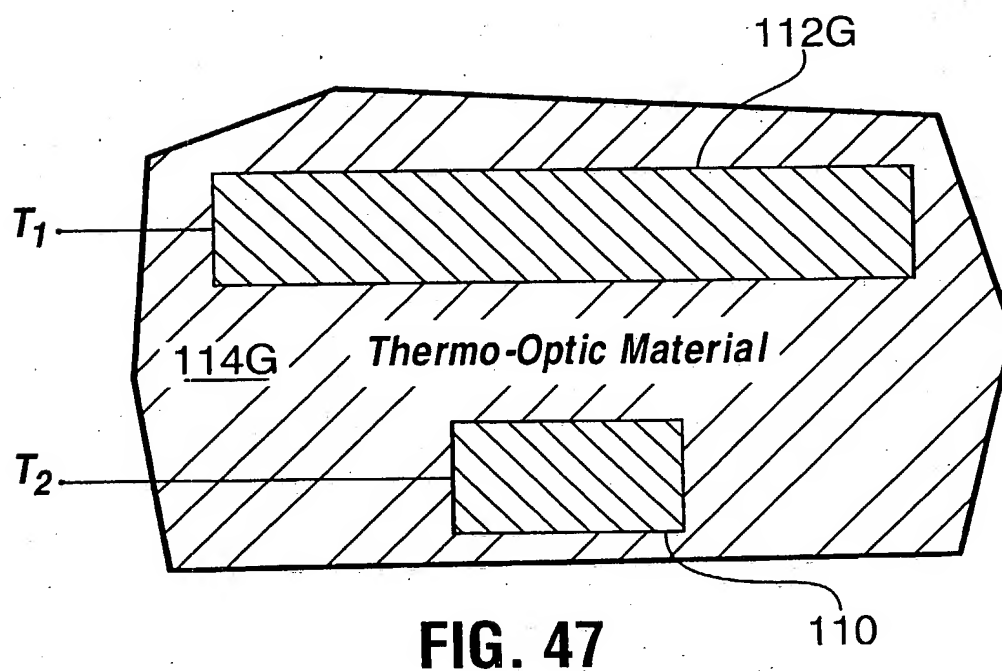
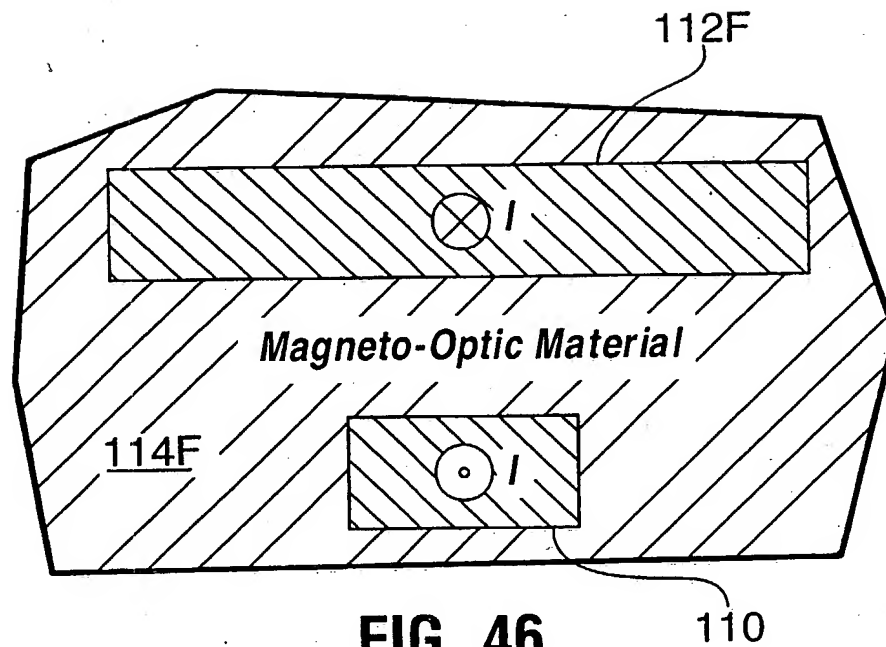
**FIG. 42**

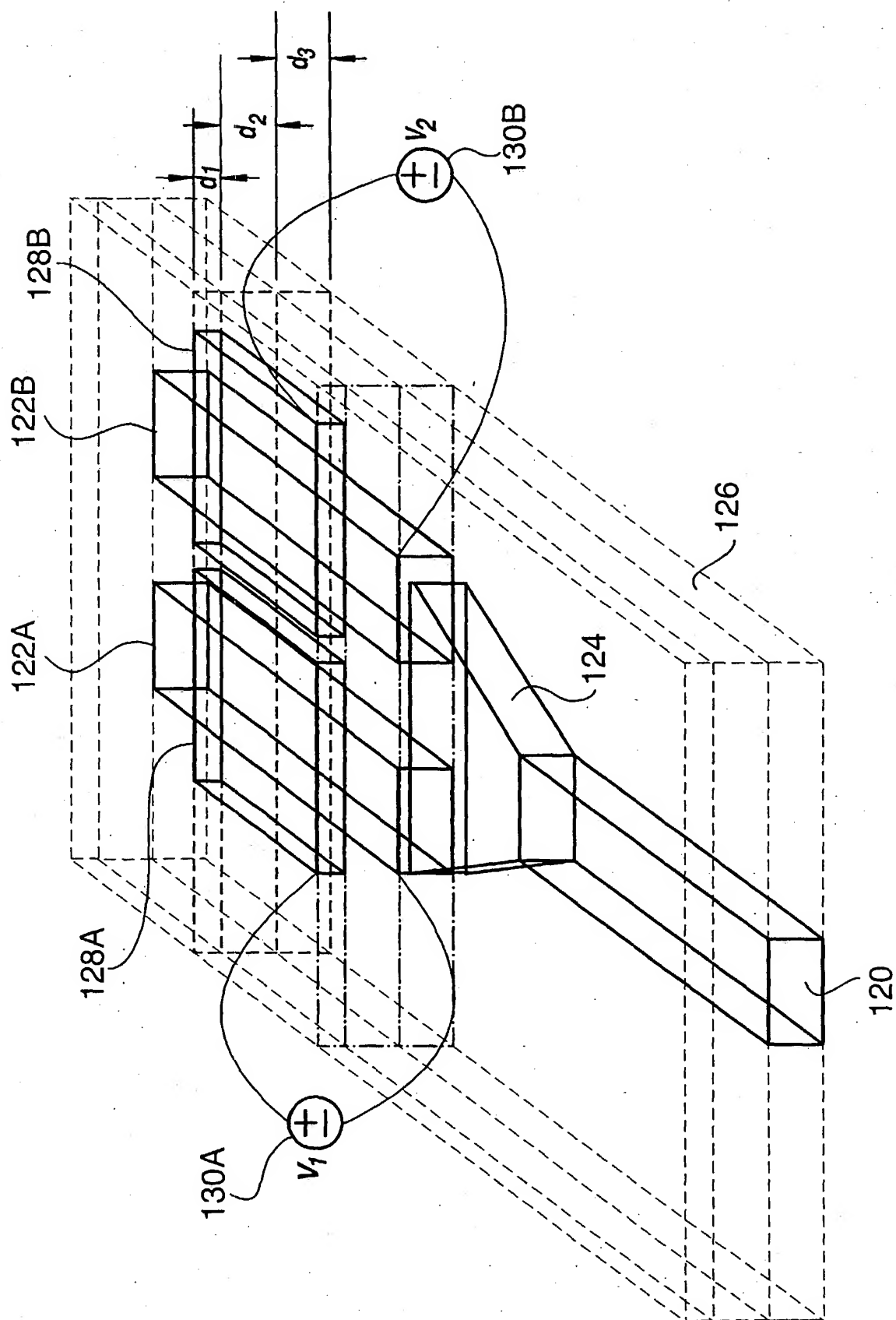






**FIG. 45**





**FIG. 48**

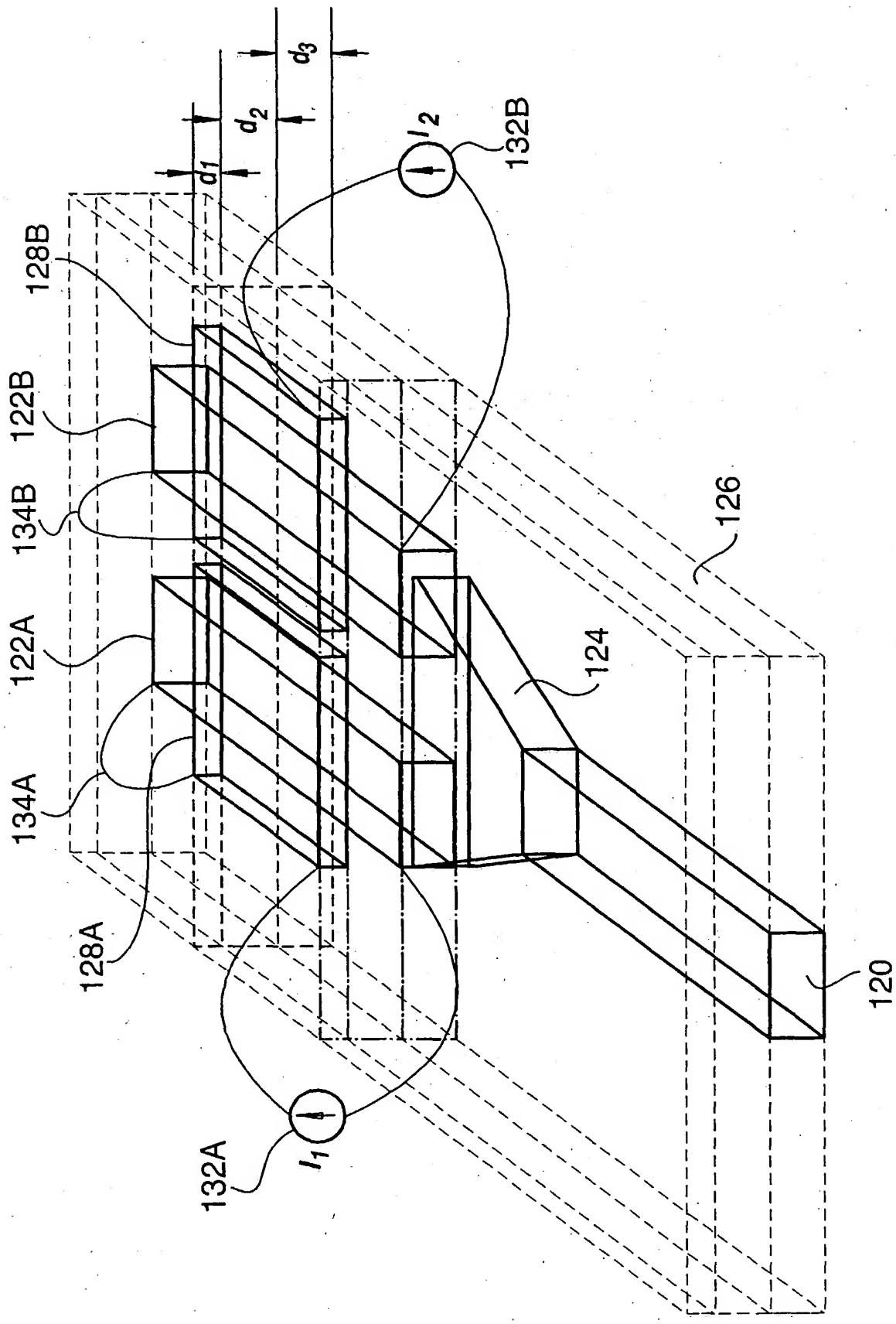
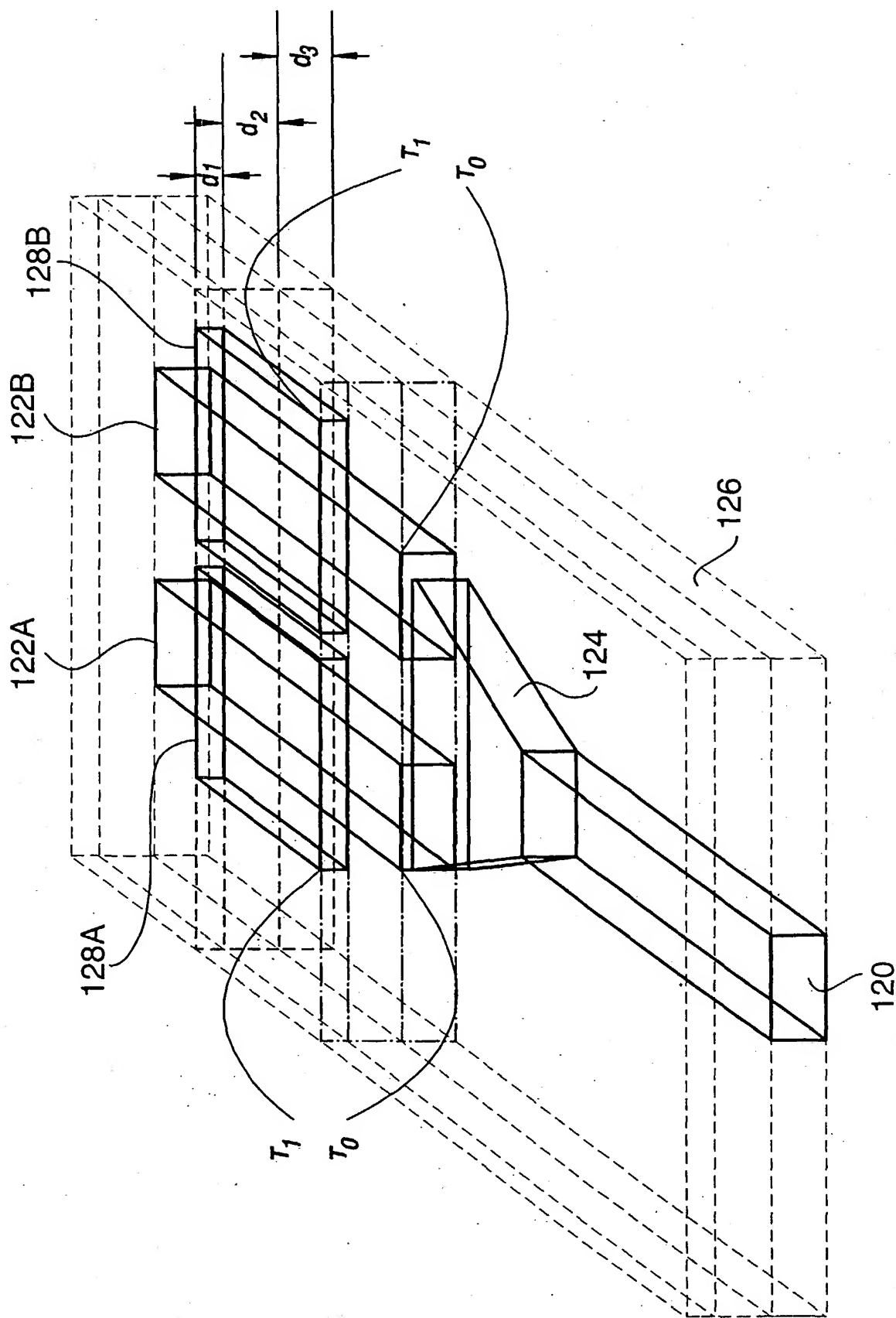


FIG. 49





**FIG. 50**

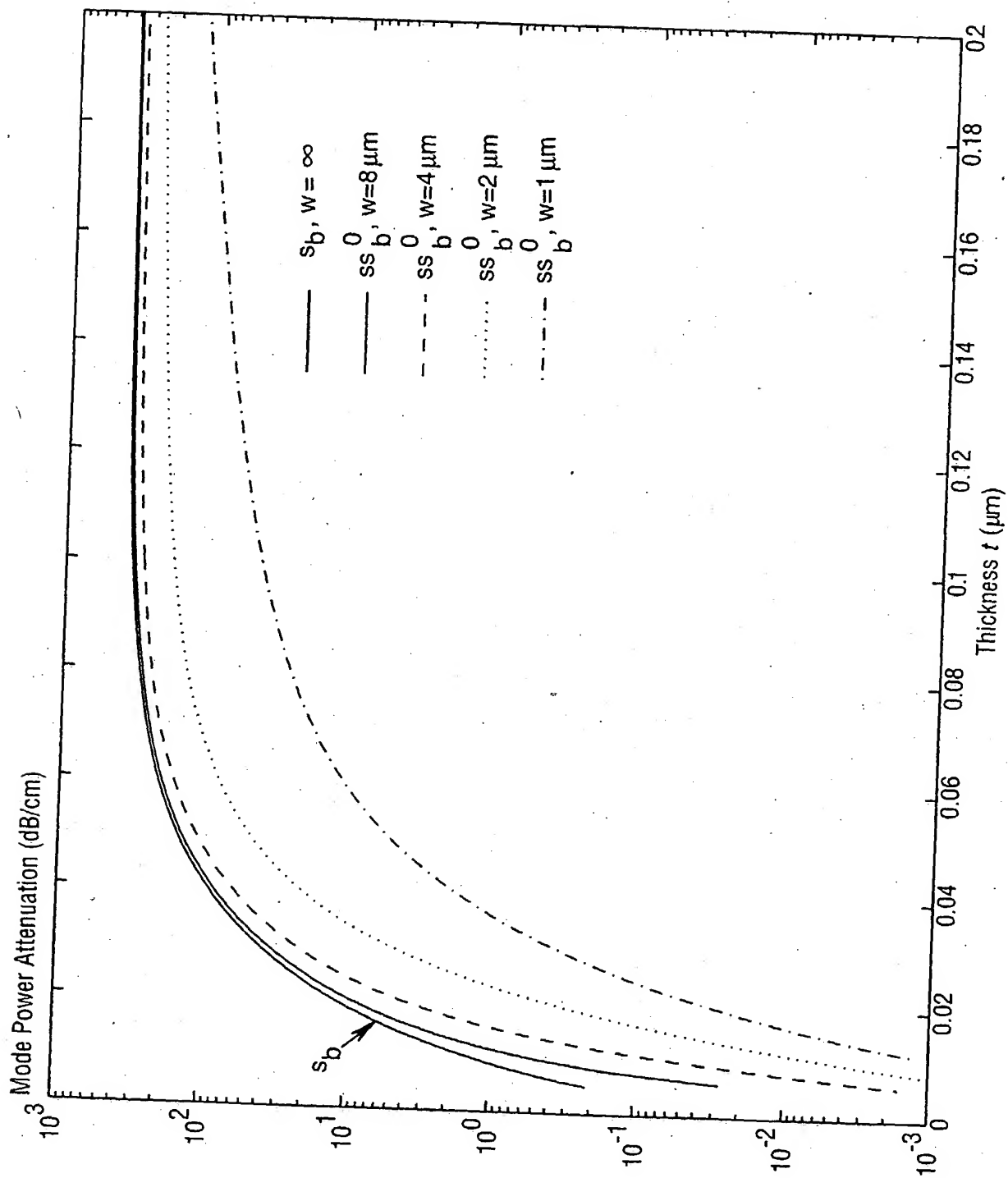


FIG. 51

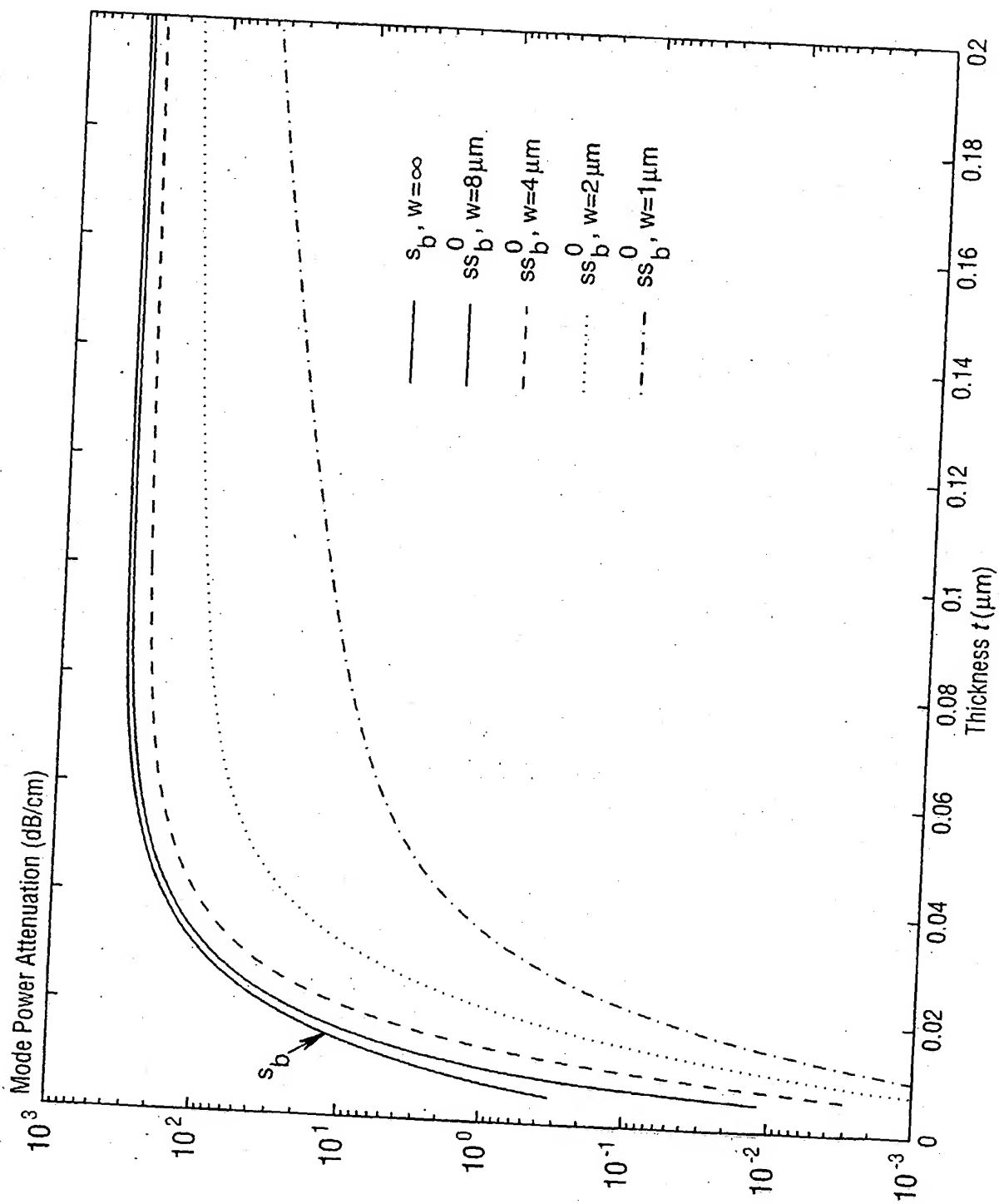


FIG. 52